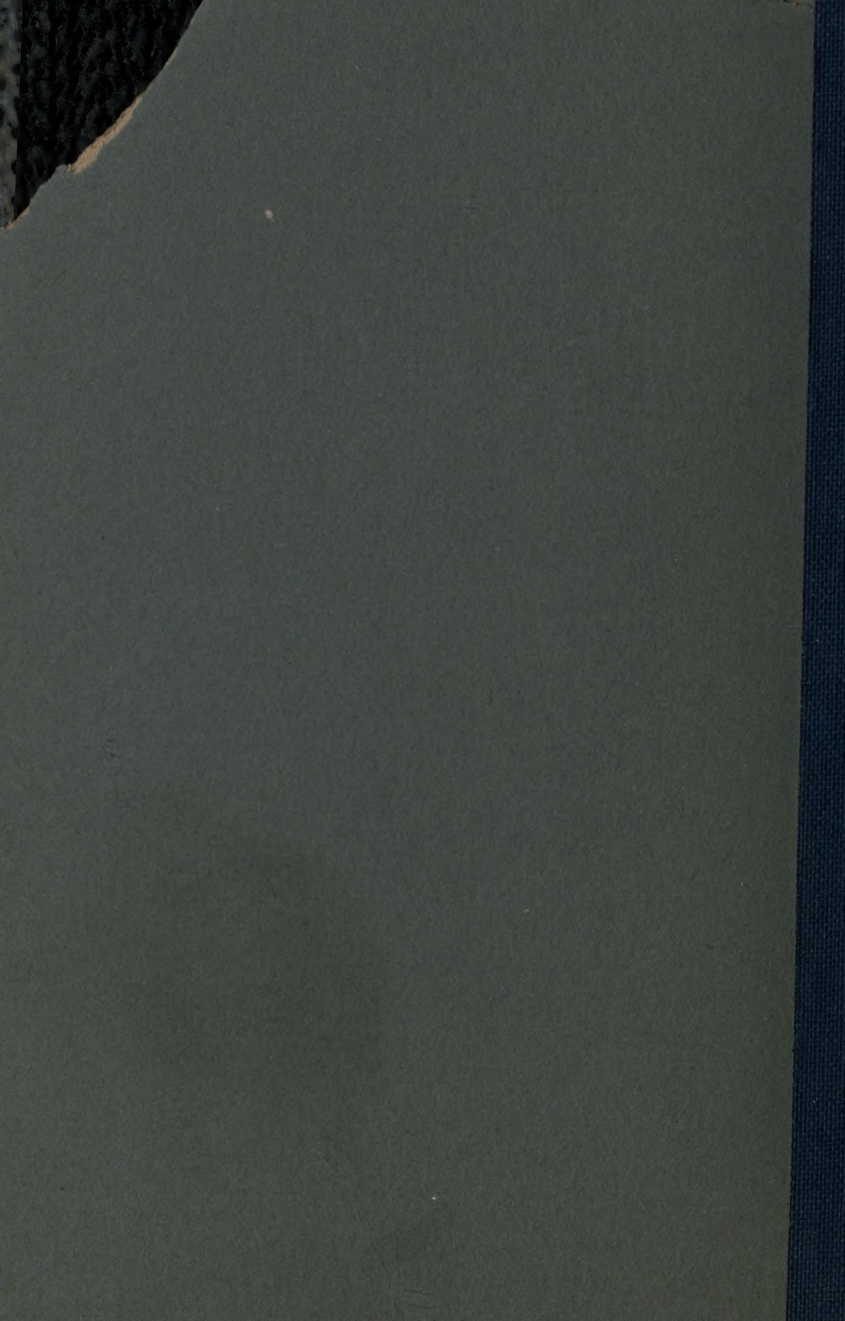




Knott, Cargill Gilston
Four-figure mathematical
tables. New and enl. ed.

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FOUR-FIGURE MATHEMATICAL TABLES

NEW AND ENLARGED EDITION

BY

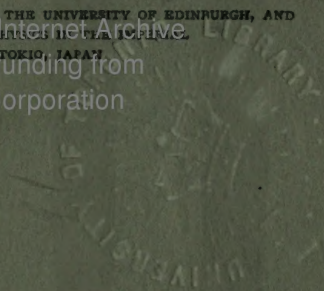
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LONDON : 38 Soho Square, W.
W. & R. CHAMBERS, LIMITED
EDINBURGH : 339 High Street

USEFUL NUMBERS WITH THEIR LOGARITHMS.

METRIC SYSTEM.

	Log.		Log.
1 metre = 39·370113 in.	1·59517	1 in. = 2·54 cm.	·40483
= 3·280843 ft.	·51599	1 ft. = 30·48 cm.	1·48401
= 1·0936 yd.	·03886	1 yd. = 0·9144 m.	1·96114
1 Km. = 0·62137 ml.	1·79335	1 ml. = 1·6093 Km.	·20605
1 (m.) ² = 10·7639 (ft.) ²	1·03197	1 (in.) ² = 6·4516 (cm.) ²	·80967
= 1·196 (yd.) ²	·07773	1 (yd.) ² = 0·8361 (m.) ²	1·92227
1 (Km.) ² = 0·3861 (ml.) ²	1·58670	1 (ml.) ² = 2·59 (Km.) ²	·41330
1 hectare = 2·4716 acres	·39298	1 acre = 0·4046 hectare	1·60702
1 (m.) ³ = 1·308 (yd.) ³	·11659	1 (yd.) ³ = 0·7646 (m.) ³	1·88341
1 litre = 61·0238 (in.) ³	1·78550	1 (in.) ³ = 16·387 (cm.) ³	1·21450
= 1·76 pint	·24546	1 pint = 0·568 l.	1·75454
= 0·22 gallon	1·34237	1 gallon = 4·546 l.	·65763
1 gram = 15·43236 gr.	1·18843	1 gr. = 0·0648 g.	2·81157
1 Kg. = 2·20462 lb.	·34333	1 lb. = 0·4536 Kg.	1·65667

MATHEMATICAL CONSTANTS.

	Log.		Log.
$\pi = 3·14159265... = 3·1416$ or $22/7$ nearly.			·49715
$180/\pi = 57^{\circ}·2958 = 57^{\circ} 17' 44''·8$ (the radian in degrees, &c.)			1·75812
$\pi/2 = 1·5708$	·19612	$\pi^2 = 9·8696$	·99430
$4\pi/3 = 4·1888$	·62209	$1/\sqrt{\pi} = 0·5642$	1·75143
$1/\pi = 0·3183$	1·50285	$\sqrt[3]{3/4\pi} = 0·62035$	1·79264
$\pi/180 = 0·017453$	2·24188	$\sqrt[3]{6/\pi} = 1·24070$	·09367
$e = 2·7182818...$	·43429	$e^{\pi/2} = 4·8105$	·68219
$\text{Log}_e 10 = 2·3025851...$	or exp. (2·3025851...) = 10.		

For powers of e , see Table on p. 32.

DYNAMICAL CONSTANTS.

	Log.		Log.
$g = 32·2 \text{ ft./}(\text{sec.})^2$	1·50786	$g = 981 \text{ cm./}(\text{sec.})^2$	2·99167
1 lb.-wt. = 4·45 $\times 10^5$ dynes	5·64836	10 ⁶ dynes = 2·247 lb.-wt.	·35164
1 ft.-lb. = 0·1383 Kg.-m.	1·14078	1 Kg.-m. = 7·231 ft.-lb.	·85922
= 1·356 $\times 10^7$ ergs	7·13245	10 ⁸ ergs = 7·371 ft.-lb.	·86755
1 atmosphere of pressure = 1·014 $\times 10^6$ dynes/(cm.) ²			6·00604
= 14·7 lb.-wt./(in.) ²			1·16732
= 1·034 Kg.-wt./(cm.) ²			·01437
1 lb.-wt./(in.) ² = 70·31 gram-wt./(cm.) ²			1·84702
1 Kg. wt./(cm.) ² = 14·223 lb.-wt./(in.) ²			1·18293

	0	1	2	3	4	5	6	7	8	9	Mean Differences.								
											1	2	3	4	5	6	7	8	9
10	0000	0043	0086	0128	0170	0212	0253	0294	0334	0374	4	8	12	17	21	25	29	33	37
11	0414	0453	0492	0531	0569	0607	0645	0682	0719	0755	4	8	11	15	19	23	26	30	34
12	0792	0828	0864	0899	0934	0969	1004	1038	1072	1106	3	7	10	14	17	21	24	28	31
13	1139	1173	1206	1239	1271	1303	1335	1367	1399	1430	3	6	10	13	16	19	22	26	29
14	1461	1492	1523	1553	1584	1614	1644	1673	1703	1732	3	6	9	12	15	18	21	24	27
15	1761	1790	1818	1847	1875	1903	1931	1959	1987	2014	3	6	8	11	14	17	20	22	25
16	2041	2068	2095	2122	2148	2175	2201	2227	2253	2279	3	5	8	11	13	16	18	21	24
17	2304	2330	2355	2380	2405	2430	2455	2480	2504	2529	2	5	7	10	12	15	17	20	22
18	2553	2577	2601	2625	2648	2672	2695	2718	2742	2765	2	5	7	9	12	14	16	19	21
19	2788	2810	2833	2856	2878	2900	2923	2945	2967	2989	2	4	7	9	11	13	16	18	20
20	3010	3032	3054	3075	3096	3118	3139	3160	3181	3201	2	4	6	8	11	13	15	17	19
21	3222	3243	3263	3284	3304	3324	3345	3365	3385	3404	2	4	6	8	10	12	14	16	18
22	3424	3444	3464	3483	3502	3522	3541	3560	3579	3598	2	4	6	8	10	12	14	15	17
23	3617	3636	3655	3674	3692	3711	3729	3747	3766	3784	2	4	6	7	9	11	13	15	17
24	3802	3820	3838	3856	3874	3892	3909	3927	3945	3962	2	4	5	7	9	11	12	14	16
25	3979	3997	4014	4031	4048	4065	4082	4099	4116	4133	2	3	5	7	9	10	12	14	15
26	4150	4166	4183	4200	4216	4232	4249	4265	4281	4298	2	3	5	7	8	10	11	13	15
27	4314	4330	4346	4362	4378	4393	4409	4425	4440	4456	2	3	5	6	8	9	11	13	14
28	4472	4487	4502	4518	4533	4548	4564	4579	4594	4609	2	3	5	6	8	9	11	12	14
29	4624	4639	4654	4669	4683	4698	4713	4728	4742	4757	1	3	4	6	7	9	10	12	13
30	4771	4786	4800	4814	4829	4843	4857	4871	4886	4900	1	3	4	6	7	9	10	11	13
31	4914	4928	4942	4955	4969	4983	4997	5011	5024	5038	1	3	4	6	7	8	10	11	12
32	5051	5065	5079	5092	5105	5119	5132	5145	5159	5172	1	3	4	5	7	8	9	11	12
33	5185	5198	5211	5224	5237	5250	5263	5276	5289	5302	1	3	4	5	6	8	9	10	12
34	5315	5328	5340	5353	5366	5378	5391	5403	5416	5428	1	3	4	5	6	8	9	10	11
35	5441	5453	5465	5478	5490	5502	5514	5527	5539	5551	1	2	4	5	6	7	9	10	11
36	5563	5575	5587	5599	5611	5623	5635	5647	5658	5670	1	2	4	5	6	7	8	10	11
37	5682	5694	5705	5717	5729	5740	5752	5763	5775	5786	1	2	3	5	6	7	8	9	10
38	5798	5809	5821	5832	5843	5855	5866	5877	5888	5899	1	2	3	5	6	7	8	9	10
39	5911	5922	5933	5944	5955	5966	5977	5988	5999	6010	1	2	3	4	5	7	8	9	10
40	6021	6031	6042	6053	6064	6075	6085	6096	6107	6117	1	2	3	4	5	6	8	9	10
41	6128	6138	6149	6160	6170	6180	6191	6201	6212	6222	1	2	3	4	5	6	7	8	9
42	6232	6243	6253	6263	6274	6284	6294	6304	6314	6325	1	2	3	4	5	6	7	8	9
43	6335	6345	6355	6365	6375	6385	6395	6405	6415	6425	1	2	3	4	5	6	7	8	9
44	6435	6444	6454	6464	6474	6484	6493	6503	6513	6522	1	2	3	4	5	6	7	8	9
45	6532	6542	6551	6561	6571	6580	6590	6599	6609	6618	1	2	3	4	5	6	7	8	9
46	6628	6637	6646	6656	6665	6675	6684	6693	6702	6712	1	2	3	4	5	6	7	7	8
47	6721	6730	6739	6749	6758	6767	6776	6785	6794	6803	1	2	3	4	5	5	6	7	8
48	6812	6821	6830	6839	6848	6857	6866	6875	6884	6893	1	2	3	4	4	5	6	7	8
49	6902	6911	6920	6928	6937	6946	6955	6964	6972	6981	1	2	3	4	4	5	6	7	8
50	6990	6998	7007	7016	7024	7033	7042	7050	7059	7067	1	2	3	3	4	5	6	7	8
51	7076	7084	7093	7101	7110	7118	7126	7135	7143	7152	1	2	3	3	4	5	6	7	8
52	7160	7168	7177	7185	7193	7202	7210	7218	7226	7235	1	2	2	3	4	5	6	7	7
53	7243	7251	7259	7267	7275	7284	7292	7300	7308	7316	1	2	2	3	4	5	6	6	7
54	7324	7332	7340	7348	7356	7364	7372	7380	7388	7396	1	2	2	3	4	5	6	6	7
55	7404	7412	7419	7427	7435	7443	7451	7459	7466	7474	1	2	2	3	4	5	5	6	7
56	7482	7490	7497	7505	7513	7520	7528	7536	7543	7551	1	2	2	3	4	5	5	6	7
57	7559	7566	7574	7582	7589	7597	7604	7612	7619	7627	1	2	2	3	4	5	5	6	7
58	7634	7642	7649	7657	7664	7672	7679	7686	7694	7701	1	1	2	3	4	4	5	6	7
59	7709	7716	7723	7731	7738	7745	7752	7760	7767	7774	1	1	2	3	4	4	5	6	7
60	7782	7789	7796	7803	7810	7818	7825	7832	7839	7846	1	1	2	3	4	4	5	6	6

	0	1	2	3	4	5	6	7	8	9	Mean Differences.								
											1	2	3	4	5	6	7	8	9
-00	1000	1002	1005	1007	1009	1012	1014	1016	1019	1021	0	0	1	1	1	1	2	2	2
-01	1023	1026	1028	1030	1033	1035	1038	1040	1042	1045	0	0	1	1	1	1	2	2	2
-02	1047	1050	1052	1054	1057	1059	1062	1064	1067	1069	0	0	1	1	1	1	2	2	2
-03	1072	1074	1076	1079	1081	1084	1086	1089	1091	1094	0	0	1	1	1	1	2	2	2
-04	1096	1099	1102	1104	1107	1109	1112	1114	1117	1119	0	1	1	1	1	2	2	2	2
-05	1122	1125	1127	1130	1132	1135	1138	1140	1143	1146	0	1	1	1	1	2	2	2	2
-06	1148	1151	1153	1156	1159	1161	1164	1167	1169	1172	0	1	1	1	1	2	2	2	2
-07	1175	1178	1180	1183	1186	1189	1191	1194	1197	1199	0	1	1	1	1	2	2	2	2
-08	1202	1205	1208	1211	1213	1216	1219	1222	1225	1227	0	1	1	1	1	2	2	2	3
-09	1230	1233	1236	1239	1242	1245	1247	1250	1253	1256	0	1	1	1	1	2	2	2	3
-10	1259	1262	1265	1268	1271	1274	1276	1279	1282	1285	0	1	1	1	1	2	2	2	3
-11	1288	1291	1294	1297	1300	1303	1306	1309	1312	1315	0	1	1	1	2	2	2	2	3
-12	1318	1321	1324	1327	1330	1334	1337	1340	1343	1346	0	1	1	1	2	2	2	2	3
-13	1349	1352	1355	1358	1361	1365	1368	1371	1374	1377	0	1	1	1	2	2	2	3	3
-14	1380	1384	1387	1390	1393	1396	1400	1403	1406	1409	0	1	1	1	2	2	2	3	3
-15	1413	1416	1419	1422	1426	1429	1432	1435	1439	1442	0	1	1	1	2	2	2	3	3
-16	1445	1449	1452	1455	1459	1462	1466	1469	1472	1476	0	1	1	1	2	2	2	3	3
-17	1479	1483	1486	1489	1493	1496	1500	1503	1507	1510	0	1	1	1	2	2	2	3	3
-18	1514	1517	1521	1524	1528	1531	1535	1538	1542	1545	0	1	1	1	2	2	2	3	3
-19	1549	1552	1556	1560	1563	1567	1570	1574	1578	1581	0	1	1	1	2	2	2	3	3
-20	1585	1589	1592	1596	1600	1603	1607	1611	1614	1618	0	1	1	1	2	2	2	3	3
-21	1622	1626	1629	1633	1637	1641	1644	1648	1652	1656	0	1	1	2	2	2	3	3	3
-22	1660	1663	1667	1671	1675	1679	1683	1687	1690	1694	0	1	1	2	2	2	3	3	3
-23	1698	1702	1706	1710	1714	1718	1722	1726	1730	1734	0	1	1	2	2	2	3	3	4
-24	1738	1742	1746	1750	1754	1758	1762	1766	1770	1774	0	1	1	2	2	2	3	3	4
-25	1778	1782	1786	1791	1795	1799	1803	1807	1811	1816	0	1	1	2	2	2	3	3	4
-26	1820	1824	1828	1832	1837	1841	1845	1849	1854	1858	0	1	1	2	2	2	3	3	4
-27	1862	1866	1871	1875	1879	1884	1888	1892	1897	1901	0	1	1	2	2	2	3	3	4
-28	1905	1910	1914	1919	1923	1928	1932	1936	1941	1945	0	1	1	2	2	2	3	3	4
-29	1950	1954	1959	1963	1968	1972	1977	1982	1986	1991	0	1	1	2	2	2	3	3	4
-30	1995	2000	2004	2009	2014	2018	2023	2028	2032	2037	0	1	1	2	2	2	3	3	4
-31	2042	2046	2051	2056	2061	2065	2070	2075	2080	2084	0	1	1	2	2	2	3	3	4
-32	2089	2094	2099	2104	2109	2113	2118	2123	2128	2133	0	1	1	2	2	2	3	3	4
-33	2138	2143	2148	2153	2158	2163	2168	2173	2178	2183	0	1	1	2	2	2	3	3	4
-34	2188	2193	2198	2203	2208	2213	2218	2223	2228	2234	1	1	2	2	2	3	3	4	5
-35	2239	2244	2249	2254	2259	2265	2270	2275	2280	2286	1	1	2	2	2	3	3	4	5
-36	2291	2296	2301	2307	2312	2317	2323	2328	2333	2339	1	1	2	2	2	3	3	4	5
-37	2344	2350	2355	2360	2366	2371	2377	2382	2388	2393	1	1	2	2	2	3	3	4	5
-38	2399	2404	2410	2415	2421	2427	2432	2438	2443	2449	1	1	2	2	2	3	3	4	5
-39	2455	2460	2466	2472	2477	2483	2489	2495	2500	2506	1	1	2	2	2	3	3	4	5
-40	2512	2518	2523	2529	2535	2541	2547	2553	2559	2564	1	1	2	2	2	3	3	4	5
-41	2570	2576	2582	2588	2594	2600	2606	2612	2618	2624	1	1	2	2	2	3	3	4	5
-42	2630	2636	2642	2649	2655	2661	2667	2673	2679	2685	1	1	2	2	2	3	3	4	5
-43	2692	2698	2704	2710	2716	2723	2729	2735	2742	2748	1	1	2	2	2	3	3	4	5
-44	2754	2761	2767	2773	2780	2786	2793	2799	2805	2812	1	1	2	2	2	3	3	4	5
-45	2818	2825	2831	2838	2844	2851	2858	2864	2871	2877	1	1	2	2	2	3	3	4	5
-46	2884	2891	2897	2904	2911	2917	2924	2931	2938	2944	1	1	2	2	2	3	3	4	5
-47	2951	2958	2965	2972	2979	2985	2992	2999	3006	3013	1	1	2	2	2	3	3	4	5
-48	3020	3027	3034	3041	3048	3055	3062	3069	3076	3083	1	1	2	2	2	3	3	4	5
-49	3090	3097	3105	3112	3119	3126	3133	3141	3148	3155	1	1	2	2	2	3	3	4	5
-50	3162	3170	3177	3184	3192	3199	3206	3214	3221	3228	1	1	2	2	2	3	3	4	5

	0	1	2	3	4	5	6	7	8	9	Mean Differences.								
											1	2	3	4	5	6	7	8	9
50	3162	3170	3177	3184	3192	3199	3206	3214	3221	3228	1	1	2	3	4	5	6	7	
51	3236	3243	3251	3258	3266	3273	3281	3289	3296	3304	1	2	2	3	4	5	6	7	
52	3311	3319	3327	3334	3342	3350	3357	3365	3373	3381	1	2	2	3	4	5	6	7	
53	3388	3396	3404	3412	3420	3428	3436	3443	3451	3459	1	2	2	3	4	5	6	7	
54	3467	3475	3483	3491	3499	3508	3516	3524	3532	3540	1	2	2	3	4	5	6	7	
55	3548	3556	3565	3573	3581	3589	3597	3606	3614	3622	1	2	2	3	4	5	6	7	7
56	3631	3639	3648	3656	3664	3673	3681	3690	3698	3707	1	2	3	3	4	5	6	7	8
57	3715	3724	3733	3741	3750	3758	3767	3776	3784	3793	1	2	3	3	4	5	6	7	8
58	3802	3811	3819	3828	3837	3846	3855	3864	3873	3882	1	2	3	4	4	5	6	7	8
59	3890	3899	3908	3917	3926	3936	3945	3954	3963	3972	1	2	3	4	4	5	6	7	8
60	3981	3990	3999	4009	4018	4027	4036	4046	4055	4064	1	2	3	4	5	6	6	7	8
61	4074	4083	4093	4102	4111	4121	4130	4140	4150	4159	1	2	3	4	5	6	7	8	9
62	4169	4178	4188	4198	4207	4217	4227	4236	4246	4256	1	2	3	4	5	6	7	8	9
63	4266	4276	4285	4295	4305	4315	4325	4335	4345	4355	1	2	3	4	5	6	7	8	9
64	4365	4375	4385	4395	4406	4416	4426	4436	4446	4457	1	2	3	4	5	6	7	8	9
65	4467	4477	4487	4498	4508	4519	4529	4539	4550	4560	1	2	3	4	5	6	7	8	9
66	4571	4581	4592	4603	4613	4624	4634	4645	4656	4667	1	2	3	4	5	6	7	9	10
67	4677	4688	4699	4710	4721	4732	4742	4753	4764	4775	1	2	3	4	5	7	8	9	10
68	4786	4797	4808	4819	4831	4842	4853	4864	4875	4887	1	2	3	4	6	7	8	9	10
69	4898	4909	4920	4932	4943	4955	4966	4977	4989	5000	1	2	3	5	6	7	8	9	10
70	5012	5023	5035	5047	5058	5070	5082	5093	5105	5117	1	2	4	5	6	7	8	9	11
71	5129	5140	5152	5164	5176	5188	5200	5212	5224	5236	1	2	4	5	6	7	8	10	11
72	5248	5260	5272	5284	5297	5309	5321	5333	5346	5358	1	2	4	5	6	7	9	10	11
73	5370	5383	5395	5408	5420	5433	5445	5458	5470	5483	1	3	4	5	6	8	9	10	11
74	5495	5508	5521	5534	5546	5559	5572	5585	5598	5610	1	3	4	5	6	8	9	10	12
75	5623	5636	5649	5662	5675	5689	5702	5715	5728	5741	1	3	4	5	7	8	9	10	12
76	5754	5768	5781	5794	5808	5821	5834	5848	5861	5875	1	3	4	5	7	8	9	11	12
77	5888	5902	5916	5929	5943	5957	5970	5984	5998	6012	1	3	4	5	7	8	10	11	12
78	6026	6039	6053	6067	6081	6095	6109	6124	6138	6152	1	3	4	6	7	8	10	11	13
79	6166	6180	6194	6209	6223	6237	6252	6266	6281	6295	1	3	4	6	7	9	10	11	13
80	6310	6324	6339	6353	6368	6383	6397	6412	6427	6442	1	3	4	6	7	9	10	12	13
81	6457	6471	6486	6501	6516	6531	6546	6561	6577	6592	2	3	5	6	8	9	11	12	14
82	6607	6622	6637	6653	6668	6683	6699	6714	6730	6745	2	3	5	6	8	9	11	12	14
83	6761	6776	6792	6808	6823	6839	6855	6871	6887	6902	2	3	5	6	8	9	11	13	14
84	6918	6934	6950	6966	6982	6998	7015	7031	7047	7063	2	3	5	6	8	10	11	13	15
85	7079	7096	7112	7129	7145	7161	7178	7194	7211	7228	2	3	5	7	8	10	12	13	15
86	7244	7261	7278	7295	7311	7328	7345	7362	7379	7396	2	3	5	7	8	10	12	13	15
87	7413	7430	7447	7464	7482	7499	7516	7534	7551	7568	2	3	5	7	9	10	12	14	16
88	7586	7603	7621	7638	7656	7674	7691	7709	7727	7745	2	4	5	7	9	11	12	14	16
89	7762	7780	7798	7816	7834	7852	7870	7889	7907	7925	2	4	5	7	9	11	13	14	16
90	7943	7962	7980	7998	8017	8035	8054	8072	8091	8110	2	4	6	7	9	11	13	15	17
91	8128	8147	8166	8185	8204	8222	8241	8260	8279	8299	2	4	6	8	9	11	13	15	17
92	8318	8337	8356	8375	8395	8414	8433	8453	8472	8492	2	4	6	8	10	12	14	15	17
93	8511	8531	8551	8570	8590	8610	8630	8650	8670	8690	2	4	6	8	10	12	14	16	18
94	8710	8730	8750	8770	8790	8810	8831	8851	8872	8892	2	4	6	8	10	12	14	16	18
95	8913	8933	8954	8974	8995	9016	9036	9057	9078	9099	2	4	6	8	10	12	15	17	19
96	9120	9141	9162	9183	9204	9226	9247	9268	9290	9311	2	4	6	8	11	13	15	17	19
97	9333	9354	9376	9397	9419	9441	9462	9484	9506	9528	2	4	7	9	11	13	15	17	20
98	9550	9572	9594	9616	9638	9661	9683	9705	9727	9750	2	4	7	9	11	13	16	18	20
99	9772	9795	9817	9840	9863	9886	9908	9931	9954	9977	2	5	7	9	11	14	16	18	20

of Numbers from 0.1 to 5.09; with Subsidiary Table.

Number.	0	1	2	3	4	5	6	7	8	9	Subsidiary Table.								
											No.		Nap. Log.		No.		Nap. Log.		
											No.	Nap. Log.	No.	Nap. Log.	No.	Nap. Log.	No.	Nap. Log.	
0.1	3.6974	7927	8797	9598	0339	1029	1674	2280	2852	3393	6	1.7918	40	3.6889					
0.2	2.3906	4393	4859	5303	5729	6137	6529	6907	7270	7621	7	1.9459	50	3.9120					
0.3	.7960	8288	8606	8913	9212	9502	9783	0057	0324	0584	8	2.0794	60	4.0943					
0.4	1.0837	1084	1325	1560	1790	2015	2235	2450	2660	2866	9	2.1972	70	4.2485					
0.5	3068	3267	3461	3651	3838	4022	4202	4379	4553	4724	10	2.3026	80	4.3820					
0.6	4892	5057	5220	5380	5537	5692	5845	5995	6143	6289	20	2.9957	90	4.4998					
0.7	6433	6575	6715	6853	6989	7123	7256	7386	7515	7643	30	3.4012	100	4.6052					
0.8	7769	7893	8015	8137	8256	8375	8492	8607	8722	8835	Mean Differences.								
0.9	8946	9057	9166	9274	9381	9487	9592	9695	9798	9899	1	2	3	4	5	6	7	8	9
1.0	0.0000	0100	0198	0296	0392	0488	0583	0677	0770	0862	9	17	26	35	44	52	61	70	78
1.1	0953	1044	1133	1222	1310	1398	1484	1570	1655	1740	8	16	24	32	40	48	56	64	72
1.2	1823	1906	1989	2070	2151	2231	2311	2390	2469	2546	7	15	22	30	37	45	52	59	67
1.3	2624	2700	2776	2852	2927	3001	3075	3148	3221	3293	6	14	21	28	35	41	48	55	62
1.4	3365	3436	3507	3577	3646	3716	3784	3853	3920	3988	5	13	19	26	32	39	45	52	58
1.5	4055	4121	4187	4253	4318	4383	4447	4511	4574	4637	4	12	18	24	30	36	42	48	55
1.6	4700	4762	4824	4886	4947	5008	5068	5128	5188	5247	3	11	17	24	29	34	40	46	52
1.7	5306	5365	5423	5481	5539	5596	5653	5710	5766	5822	2	10	16	22	27	32	38	43	49
1.8	5878	5933	5988	6043	6098	6152	6206	6259	6313	6366	1	9	15	20	26	31	36	41	46
1.9	6419	6471	6523	6575	6627	6678	6729	6780	6831	6881	5	10	15	20	26	31	36	41	46
2.0	6931	6981	7031	7080	7129	7178	7227	7275	7324	7372	4	10	15	20	24	29	34	39	44
2.1	7419	7467	7514	7561	7608	7655	7701	7747	7793	7839	5	9	14	19	23	28	33	37	42
2.2	7885	7930	7975	8020	8065	8109	8154	8198	8242	8286	4	9	13	18	22	27	31	36	40
2.3	8329	8372	8416	8459	8502	8544	8587	8629	8671	8713	4	9	13	17	21	26	30	34	38
2.4	8755	8796	8838	8879	8920	8961	9002	9042	9083	9123	4	8	12	16	20	24	29	33	37
2.5	9163	9203	9243	9282	9322	9361	9400	9439	9478	9517	4	8	12	16	20	24	27	31	35
2.6	9555	9594	9632	9670	9708	9746	9783	9821	9858	9895	4	8	11	15	19	23	26	30	34
2.7	9933	9969	0006	0043	0080	0116	0152	0188	0225	0260	4	7	11	15	18	22	26	29	33
2.8	1.0296	0332	0367	0403	0438	0473	0508	0543	0578	0613	4	7	11	14	18	21	25	28	32
2.9	0647	0682	0716	0750	0784	0818	0852	0886	0919	0953	3	7	10	14	17	20	24	27	31
3.0	0986	1019	1053	1086	1119	1151	1184	1217	1249	1282	3	7	10	13	16	20	23	26	30
3.1	1314	1346	1378	1410	1442	1474	1506	1537	1569	1600	3	6	10	13	16	19	22	25	28
3.2	1632	1663	1694	1725	1756	1787	1817	1848	1878	1909	3	6	9	12	15	18	21	25	29
3.3	1939	1969	2000	2030	2060	2090	2119	2149	2179	2208	3	6	9	12	15	18	21	24	27
3.4	2238	2267	2296	2326	2355	2384	2413	2442	2470	2499	3	6	9	12	14	17	20	23	26
3.5	2528	2556	2585	2613	2641	2669	2698	2726	2754	2782	3	6	8	11	14	17	20	22	25
3.6	2809	2837	2865	2892	2920	2947	2975	3002	3029	3056	3	5	8	11	14	16	19	22	25
3.7	3083	3110	3137	3164	3191	3218	3244	3271	3297	3324	3	5	8	11	13	16	19	21	24
3.8	3350	3376	3403	3429	3455	3481	3507	3533	3558	3584	3	5	8	10	13	16	18	21	23
3.9	3610	3635	3661	3686	3712	3737	3762	3788	3813	3838	3	5	8	10	13	15	18	20	23
4.0	3863	3888	3913	3938	3962	3987	4012	4036	4061	4085	2	5	7	10	12	15	17	20	22
4.1	4110	4134	4159	4183	4207	4231	4255	4279	4303	4327	2	5	7	10	12	14	17	19	22
4.2	4351	4375	4398	4422	4446	4469	4493	4516	4540	4563	2	5	7	9	12	14	16	19	21
4.3	4586	4609	4633	4656	4679	4702	4725	4748	4770	4793	2	5	7	9	11	14	16	18	21
4.4	4816	4839	4861	4884	4907	4929	4951	4974	4996	5019	2	4	7	9	11	13	16	18	20
4.5	5041	5063	5085	5107	5129	5151	5173	5195	5217	5239	2	4	7	9	11	13	15	18	20
4.6	5261	5282	5304	5326	5347	5369	5390	5412	5433	5454	2	4	6	8	11	13	15	17	19
4.7	5476	5497	5518	5539	5560	5581	5602	5623	5644	5665	2	4	6	8	10	13	15	17	19
4.8	5686	5707	5728	5748	5769	5790	5810	5831	5851	5872	2	4	6	8	10	12	14	16	19
4.9	5892	5913	5933	5953	5974	5994	6014	6034	6054	6074	2	4	6	8	10	12	14	16	18
5.0	6094	6114	6134	6154	6174	6194	6214	6233	6253	6273	2	4	6	8	10	12	14	16	18

Arc	0'	1'	2'	3'	4'	5'	6'	7'	8'	9'	Mean Diff.	Table of Addition to be made to Loga. of Sines to get corresponding Loga. of Tangents.				
												0'	2'	4'	6'	8'
0° 0'	4'—	4637	7648	9408	0658	1627	2419	3088	3668	4180		0	0	0	0	0
10'	3'4637	5051	5429	5777	6099	6398	6678	6942	7190	7425		0	0	0	0	0
20'	7648	7859	8061	8255	8439	8617	8787	8951	9109	9261		0	1	0	0	0
30'	9408	9551	9689	9822	9952	0078	0200	0319	0435	0548		1	0	0	0	0
40'	2'0658	0765	0870	0972	1072	1169	1265	1358	1450	1539		0	0	0	0	0
50'	1627	1713	1797	1880	1961	2041	2119	2196	2271	2346		0	1	1	1	1
1° 0'	2419	2490	2561	2630	2699	2766	2832	2898	2962	3025	67	0	1	1	1	1
10'	3088	3150	3210	3270	3329	3388	3445	3502	3558	3613	58	1	1	1	1	1
20'	3668	3722	3775	3828	3880	3931	3982	4032	4082	4131	51	1	1	1	1	1
30'	4179	4227	4275	4322	4368	4414	4459	4504	4549	4593	46	2	1	2	2	2
40'	4637	4680	4723	4765	4807	4848	4890	4930	4971	5011	42	1	2	2	2	2
50'	5050	5090	5129	5167	5206	5243	5281	5318	5355	5392	38	3	2	2	2	3
2° 0'	5428	5464	5500	5535	5571	5605	5640	5674	5708	5742	35	3	3	2	3	3
10'	5776	5809	5842	5875	5907	5939	5972	6003	6035	6066	32	3	3	4	3	3
20'	6097	6128	6159	6189	6220	6250	6279	6309	6339	6368	30	4	4	3	4	4
30'	6397	6426	6454	6483	6511	6539	6567	6595	6622	6650	28	4	5	4	4	5
40'	6677	6704	6731	6758	6784	6810	6837	6863	6889	6914	26	5	5	5	5	5
50'	6940	6965	6991	7016	7041	7066	7090	7115	7140	7164	25	5	5	5	6	5
3° 0'	7188	7212	7236	7260	7283	7307	7330	7354	7377	7400	23	6	6	7	7	6
10'	7423	7445	7468	7491	7513	7535	7557	7580	7602	7623	22	6	7	7	8	7
20'	7645	7667	7688	7710	7731	7752	7773	7794	7815	7836	21	7	8	8	8	8
30'	7857	7877	7898	7918	7939	7959	7979	7999	8019	8039	20	8	8	8	9	9
40'	8059	8078	8098	8117	8137	8156	8175	8194	8213	8232	19	8	9	9	10	10
50'	8251	8270	8289	8307	8326	8345	8363	8381	8400	8418	18	10	10	10	10	10
4° 0'	8436	8454	8472	8490	8508	8525	8543	8560	8578	8595	18	10	11	10	11	11
10'	8613	8630	8647	8665	8682	8699	8716	8733	8749	8766	17	11	12	12	12	13
20'	8783	8799	8816	8833	8849	8865	8882	8898	8914	8930	16	12	13	13	13	13
30'	8946	8962	8978	8994	9010	9026	9042	9057	9073	9089	16	14	14	14	14	14
40'	9104	9119	9135	9150	9166	9181	9196	9211	9226	9241	15	14	15	14	15	15
50'	9256	9271	9286	9301	9315	9330	9345	9359	9374	9388	15	16	16	16	16	16
5° 0'	9403	9417	9432	9446	9460	9475	9489	9503	9517	9531	14	17	17	17	17	17
10'	9545	9559	9573	9587	9601	9614	9628	9642	9655	9669	14	18	18	18	18	19
20'	9682	9696	9709	9723	9736	9750	9763	9776	9789	9803	13	19	20	20	19	20
30'	9816	9829	9842	9855	9868	9881	9894	9907	9919	9932	13	20	20	20	21	21
40'	9945	9958	9970	9983	9996	0008	0021	0033	0046	0058	13	21	22	21	22	22
50'	1'0070	0083	0095	0107	0120	0132	0144	0156	0168	0180	12	23	23	23	23	24
6° 0'	0192	0204	0216	0228	0240	0252	0264	0276	0287	0299	12	24	24	25	25	25
10'	0311	0323	0334	0346	0357	0369	0380	0392	0403	0415	12	25	26	26	27	27
20'	0426	0438	0449	0460	0472	0483	0494	0505	0516	0527	11	27	27	27	27	28
30'	0539	0550	0561	0572	0583	0594	0605	0616	0626	0637	11	28	28	28	28	30
40'	0648	0659	0670	0680	0691	0702	0712	0723	0734	0744	11	30	29	30	31	30
50'	0755	0765	0776	0786	0797	0807	0818	0828	0838	0849	10	31	31	31	31	33
7° 0'	0859	0869	0879	0889	0900	0910	0920	0930	0940	0951	10	32	33	33	34	34
10'	0961	0971	0981	0991	1001	1011	1020	1030	1040	1050	10	34	34	34	35	36
20'	1060	1070	1080	1089	1099	1109	1118	1128	1138	1147	10	36	36	36	37	37
30'	1157	1167	1176	1186	1195	1205	1214	1224	1233	1242	10	37	38	38	38	39
40'	1252	1261	1271	1280	1289	1299	1308	1317	1326	1336	9	39	39	40	40	41
50'	1345	1354	1363	1372	1381	1390	1399	1409	1418	1427	9	40	41	42	42	42

Radian.	Degree.	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	Mean Differences.				
		0° 0	0° 1	0° 2	0° 3	0° 4	0° 5	0° 6	0° 7	0° 8	0° 9	1'	2'	3'	4'	5'
·0000	0	— ∞	3·2419	5429	7190	8430	9408	0200	0870	1450	1961					
·0175	1	2·2419	2832	3210	3558	3880	4179	4459	4723	4971	5206					
·0349	2	"5428	5640	5842	6035	6220	6397	6567	6731	6889	7041					
·0524	3	"7188	7330	7468	7602	7731	7857	7979	8098	8213	8326					
·0698	4	"8436	8543	8647	8749	8849	8946	9042	9135	9226	9315	16	32	48	64	80
·0873	5	"9403	9489	9573	9655	9736	9816	9894	9970	0046	0120	13	26	39	52	65
·1047	6	1° 0192	0264	0334	0403	0472	0539	0605	0670	0734	0797	11	22	33	44	55
·1222	7	"0859	0920	0981	1040	1099	1157	1214	1271	1326	1381	10	19	29	38	48
·1396	8	"1436	1489	1542	1594	1646	1697	1747	1797	1847	1895	8	17	25	34	42
·1571	9	"1943	1991	2038	2085	2131	2176	2221	2266	2310	2353	8	15	23	30	38
·1745	10	"2397	2439	2482	2524	2565	2606	2647	2687	2727	2767	7	14	20	27	34
·1920	11	"2806	2845	2883	2921	2959	2997	3034	3070	3107	3143	6	12	19	25	31
·2094	12	"3179	3214	3250	3284	3319	3353	3387	3421	3455	3488	6	11	17	23	28
·2269	13	"3521	3554	3586	3618	3650	3682	3713	3745	3775	3806	5	11	16	21	26
·2443	14	"3837	3867	3897	3927	3957	3986	4015	4044	4073	4102	5	10	15	20	24
·2618	15	"4130	4158	4186	4214	4242	4269	4296	4323	4350	4377	5	9	14	18	23
·2793	16	"4403	4430	4456	4482	4508	4533	4559	4584	4609	4634	4	9	13	17	21
·2967	17	"4659	4684	4709	4733	4757	4781	4805	4829	4853	4876	4	8	12	16	20
·3142	18	"4900	4923	4946	4969	4992	5015	5037	5060	5082	5104	4	8	11	15	19
·3316	19	"5126	5148	5170	5192	5213	5235	5256	5278	5299	5320	4	7	11	14	18
·3491	20	"5341	5361	5382	5402	5423	5443	5463	5484	5504	5523	3	7	10	14	17
·3665	21	"5543	5563	5583	5602	5621	5641	5660	5679	5698	5717	3	6	10	13	16
·3840	22	"5736	5754	5773	5792	5810	5828	5847	5865	5883	5901	3	6	9	12	15
·4014	23	"5919	5937	5954	5972	5990	6007	6024	6042	6059	6076	3	6	9	12	15
·4189	24	"6093	6110	6127	6144	6161	6177	6194	6210	6227	6243	3	6	8	11	14
·4363	25	"6259	6276	6292	6308	6324	6340	6356	6371	6387	6403	3	5	8	11	13
·4538	26	"6418	6434	6449	6465	6480	6495	6510	6526	6541	6556	3	5	8	10	13
·4712	27	"6570	6585	6600	6615	6629	6644	6659	6673	6687	6702	2	5	7	10	12
·4887	28	"6716	6730	6744	6759	6773	6787	6801	6814	6828	6842	2	5	7	9	12
·5061	29	"6856	6869	6883	6896	6910	6923	6937	6950	6963	6977	2	4	7	9	11
·5236	30	"6990	7003	7016	7029	7042	7055	7068	7080	7093	7106	2	4	6	9	11
·5411	31	"7118	7131	7144	7156	7168	7181	7193	7205	7218	7230	2	4	6	8	10
·5585	32	"7242	7254	7266	7278	7290	7302	7314	7326	7338	7349	2	4	6	8	10
·5760	33	"7361	7373	7384	7396	7407	7419	7430	7442	7453	7464	2	4	6	8	10
·5934	34	"7476	7487	7498	7509	7520	7531	7542	7553	7564	7575	2	4	6	7	9
·6109	35	"7586	7597	7607	7618	7629	7640	7650	7661	7671	7682	2	4	5	7	9
·6283	36	"7692	7703	7713	7723	7734	7744	7754	7764	7774	7785	2	3	5	7	9
·6458	37	"7795	7805	7815	7825	7835	7844	7854	7864	7874	7884	2	3	5	7	8
·6632	38	"7893	7903	7913	7922	7932	7941	7951	7960	7970	7979	2	3	5	6	8
·6807	39	"7989	7998	8007	8017	8026	8035	8044	8053	8063	8072	2	3	5	6	8
·6981	40	"8081	8090	8099	8108	8117	8125	8134	8143	8152	8161	1	3	4	6	7
·7156	41	"8169	8178	8187	8195	8204	8213	8221	8230	8238	8247	1	3	4	6	7
·7330	42	"8255	8264	8272	8280	8289	8297	8305	8313	8322	8330	1	3	4	6	7
·7505	43	"8338	8346	8354	8362	8370	8378	8386	8394	8402	8410	1	3	4	5	7
·7679	44	"8418	8426	8434	8441	8449	8457	8464	8472	8480	8487	1	3	4	5	6
·7854	45	"8495	8502	8510	8517	8525	8532	8540	8547	8555	8562	1	2	4	5	6

Radian = 0017 0035 0052 0070 0087 0105 0122 0140 0157

Radian.	Degree.	0'	8'	12'	18'	24'	30'	36'	42'	48'	54'	Mean Differences.				
		0° 0	0° 1	0° 2	0° 3	0° 4	0° 5	0° 6	0° 7	0° 8	0° 9	1'	2'	3'	4'	5'
·785	45	1° 8495	8502	8510	8517	8525	8532	8540	8547	8555	8562	1	2	4	5	6
·803	46	" 8569	8577	8584	8591	8598	8606	8613	8620	8627	8634	1	2	4	5	6
·820	47	" 8641	8648	8655	8662	8669	8676	8683	8690	8697	8704	1	2	3	5	6
·838	48	" 8711	8718	8724	8731	8738	8745	8751	8758	8765	8771	1	2	3	4	6
·855	49	" 8778	8784	8791	8797	8804	8810	8817	8823	8830	8836	1	2	3	4	5
·873	50	" 8843	8849	8855	8862	8868	8874	8880	8887	8893	8899	1	2	3	4	5
·890	51	" 8905	8911	8917	8923	8929	8935	8941	8947	8953	8959	1	2	3	4	5
·908	52	" 8965	8971	8977	8983	8989	8995	9000	9006	9012	9018	1	2	3	4	5
·925	53	" 9023	9029	9035	9041	9046	9052	9057	9063	9069	9074	1	2	3	4	5
·942	54	" 9080	9085	9091	9096	9101	9107	9112	9118	9123	9128	1	2	3	4	5
·960	55	" 9134	9139	9144	9149	9155	9160	9165	9170	9175	9181	1	2	3	3	4
·977	56	" 9186	9191	9196	9201	9206	9211	9216	9221	9226	9231	1	2	3	3	4
·995	57	" 9236	9241	9246	9251	9255	9260	9265	9270	9275	9279	1	2	2	3	4
1° 012	58	" 9284	9289	9294	9298	9303	9308	9312	9317	9322	9326	1	2	2	3	4
1° 030	59	" 9331	9335	9340	9344	9349	9353	9358	9362	9367	9371	1	1	2	3	4
1° 047	60	" 9375	9380	9384	9388	9393	9397	9401	9406	9410	9414	1	1	2	3	4
1° 065	61	" 9418	9422	9427	9431	9435	9439	9443	9447	9451	9455	1	1	2	3	3
1° 082	62	" 9459	9463	9467	9471	9475	9479	9483	9487	9491	9495	1	1	2	3	3
1° 100	63	" 9499	9503	9507	9510	9514	9518	9522	9525	9529	9533	1	1	2	3	3
1° 117	64	" 9537	9540	9544	9548	9551	9555	9558	9562	9566	9569	1	1	2	2	3
1° 134	65	" 9573	9576	9580	9583	9587	9590	9594	9597	9601	9604	1	1	2	2	3
1° 152	66	" 9607	9611	9614	9617	9621	9624	9627	9631	9634	9637	1	1	2	2	3
1° 169	67	" 9640	9643	9647	9650	9653	9656	9659	9662	9666	9669	1	1	2	2	3
1° 187	68	" 9672	9675	9678	9681	9684	9687	9690	9693	9696	9699	0	1	1	2	2
1° 204	69	" 9702	9704	9707	9710	9713	9716	9719	9722	9724	9727	0	1	1	2	2
1° 222	70	" 9730	9733	9735	9738	9741	9743	9746	9749	9751	9754	0	1	1	2	2
1° 239	71	" 9757	9759	9762	9764	9767	9770	9773	9775	9777	9780	0	1	1	2	2
1° 257	72	" 9782	9785	9787	9789	9792	9794	9797	9799	9801	9804	0	1	1	2	2
1° 274	73	" 9806	9808	9811	9813	9815	9817	9820	9822	9824	9826	0	1	1	2	2
1° 292	74	" 9828	9831	9833	9835	9837	9839	9841	9843	9845	9847	0	1	1	1	2
1° 309	75	" 9849	9851	9853	9855	9857	9859	9861	9863	9865	9867	0	1	1	1	2
1° 326	76	" 9869	9871	9873	9875	9876	9878	9880	9882	9884	9885	0	1	1	1	2
1° 344	77	" 9887	9889	9891	9892	9894	9896	9897	9899	9901	9902	0	1	1	1	1
1° 361	78	" 9904	9906	9907	9909	9910	9912	9913	9915	9916	9918	0	1	1	1	1
1° 379	79	" 9919	9921	9922	9924	9925	9927	9928	9929	9931	9932	0	0	1	1	1
1° 396	80	" 9934	9935	9936	9937	9939	9940	9941	9943	9944	9945	0	0	1	1	1
1° 414	81	" 9946	9947	9949	9950	9951	9952	9953	9954	9955	9956	0	0	1	1	1
1° 431	82	" 9958	9959	9960	9961	9962	9963	9964	9965	9966	9967	0	0	1	1	1
1° 449	83	" 9968	9968	9969	9970	9971	9972	9973	9974	9975	9976	0	0	0	1	1
1° 466	84	" 9976	9977	9978	9978	9979	9980	9981	9981	9982	9983	0	0	0	0	1
1° 484	85	" 9983	9984	9985	9985	9986	9987	9987	9988	9988	9989	0	0	0	0	0
1° 501	86	" 9989	9990	9990	9991	9991	9992	9992	9993	9993	9994	0	0	0	0	0
1° 518	87	" 9994	9994	9995	9995	9996	9996	9996	9996	9997	9997	0	0	0	0	0
1° 536	88	" 9997	9998	9998	9998	9998	9999	9999	9999	9999	9999	0	0	0	0	0
1° 553	89	" 9999	9999	0000	0000	0000	0000	0000	0000	0000	0000	0	0	0	0	0
1° 571	90	0° 0000														

Radian = 0017 0035 0052 0070 0087 0105 0122 0140 0157

Radian.	Degree.	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	Mean Differences.				
		0°0	0°1	0°2	0°3	0°4	0°5	0°6	0°7	0°8	0°9	1'	2'	3'	4'	5'
·0000	0	0°0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0	0	0	0	0
·0175	1	0°0009	9999	9999	9999	9999	9999	9998	9998	9998	9998	0	0	0	0	0
·0349	2	0°0017	9997	9997	9996	9996	9996	9995	9995	9995	9994	0	0	0	0	0
·0524	3	0°0024	9994	9993	9993	9992	9992	9991	9991	9990	9990	0	0	0	0	0
·0698	4	0°0031	9989	9988	9988	9987	9987	9986	9985	9985	9984	0	0	0	0	0
·0873	5	0°0038	9983	9982	9981	9981	9980	9979	9978	9978	9977	0	0	0	0	1
1047	6	0°0045	9975	9975	9974	9973	9972	9971	9970	9969	9968	0	0	0	1	1
1222	7	0°0052	9967	9966	9965	9964	9963	9962	9961	9960	9959	0	0	1	1	1
1396	8	0°0059	9956	9955	9954	9953	9952	9951	9950	9949	9947	0	0	1	1	1
1571	9	0°0066	9945	9944	9943	9941	9940	9939	9937	9936	9935	0	0	1	1	1
1745	10	0°0073	9932	9931	9929	9928	9927	9925	9924	9922	9921	0	0	1	1	1
1920	11	0°0080	9918	9916	9915	9913	9912	9910	9909	9907	9906	0	1	1	1	1
2094	12	0°0087	9902	9901	9899	9897	9896	9894	9892	9891	9889	0	1	1	1	1
2269	13	0°0093	9885	9884	9882	9880	9878	9876	9875	9873	9871	0	1	1	1	2
2443	14	0°0099	9867	9865	9863	9861	9859	9857	9855	9853	9851	0	1	1	1	2
2618	15	0°0106	9847	9845	9843	9841	9839	9837	9835	9833	9831	0	1	1	1	2
2793	16	0°0113	9826	9824	9822	9820	9817	9815	9813	9811	9808	0	1	1	2	2
2967	17	0°0120	9806	9804	9801	9799	9797	9794	9792	9789	9787	0	1	1	2	2
3142	18	0°0127	9782	9780	9777	9775	9772	9770	9767	9764	9762	0	1	1	2	2
3316	19	0°0134	9757	9754	9751	9749	9746	9743	9741	9738	9735	0	1	1	2	2
3491	20	0°0141	9730	9727	9724	9722	9719	9716	9713	9710	9707	0	1	1	2	2
3665	21	0°0148	9695	9696	9693	9690	9687	9684	9681	9678	9675	0	1	1	2	2
3840	22	0°0155	9672	9669	9666	9662	9659	9656	9653	9650	9647	0	1	2	2	3
4014	23	0°0162	9640	9637	9634	9631	9627	9624	9621	9617	9614	0	1	2	2	3
4189	24	0°0169	9604	9601	9597	9594	9590	9587	9583	9580	9576	0	1	2	2	3
4363	25	0°0176	9573	9569	9566	9562	9558	9555	9551	9548	9544	0	1	2	2	3
4538	26	0°0183	9533	9529	9525	9522	9518	9514	9510	9507	9503	1	1	2	3	3
4712	27	0°0190	9495	9491	9487	9483	9479	9475	9471	9467	9463	1	1	2	3	3
4887	28	0°0197	9459	9455	9451	9447	9443	9439	9435	9431	9427	1	1	2	3	3
5061	29	0°0204	9418	9414	9410	9406	9401	9397	9393	9388	9384	1	1	2	3	4
5236	30	0°0211	9375	9371	9367	9362	9358	9353	9349	9344	9340	1	1	2	3	4
5411	31	0°0218	9331	9326	9322	9317	9312	9308	9303	9298	9294	1	2	2	3	4
5585	32	0°0224	9279	9275	9270	9265	9260	9255	9251	9246	9241	1	2	2	3	4
5760	33	0°0231	9236	9231	9226	9221	9216	9211	9206	9201	9196	1	2	3	3	4
5934	34	0°0238	9186	9181	9175	9170	9165	9160	9155	9149	9144	1	2	3	3	4
6109	35	0°0244	9134	9128	9123	9118	9112	9107	9101	9096	9091	1	2	3	4	5
6283	36	0°0250	9074	9069	9063	9057	9052	9046	9041	9035	9029	1	2	3	4	5
6458	37	0°0257	9023	9018	9012	9006	9000	8995	8989	8983	8977	1	2	3	4	5
6632	38	0°0264	8965	8959	8953	8947	8941	8935	8929	8923	8917	1	2	3	4	5
6807	39	0°0271	8905	8899	8893	8887	8880	8874	8868	8862	8855	1	2	3	4	5
6981	40	0°0278	8843	8836	8830	8823	8817	8810	8804	8797	8791	1	2	3	4	5
7156	41	0°0285	8778	8771	8765	8758	8751	8745	8738	8731	8724	1	2	3	5	6
7330	42	0°0292	8711	8704	8697	8690	8683	8676	8669	8662	8655	1	2	3	5	6
7505	43	0°0299	8641	8634	8627	8620	8613	8606	8598	8591	8584	1	2	4	5	6
7679	44	0°0306	8569	8562	8555	8547	8540	8532	8525	8517	8510	1	2	4	5	6
7854	45	0°0313	8495	8487	8480	8472	8464	8457	8449	8441	8433	1	3	4	5	6
Radian = 0017		0035	0052	0070	0087	0105	0122	0140	0157							

Radian.	Degree.											Mean Differences.				
		0°	5'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
°785	45	1°8495	8487	8480	8472	8464	8457	8449	8441	8433	8425	1	3	4	5	6
°803	46	"8418	8410	8402	8394	8386	8378	8370	8362	8354	8346	1	3	4	5	7
°820	47	"8338	8330	8322	8313	8305	8297	8289	8280	8272	8264	1	3	4	6	7
°838	48	"8255	8247	8238	8230	8221	8213	8204	8195	8187	8178	1	4	6	7	
°855	49	"8169	8161	8152	8143	8134	8125	8117	8108	8099	8090	1	3	4	6	7
°873	50	"8081	8072	8063	8053	8044	8035	8026	8017	8007	7998	2	3	5	6	8
°890	51	"7989	7979	7970	7960	7951	7941	7932	7922	7913	7903	2	3	5	6	8
°908	52	"7893	7884	7874	7864	7854	7844	7835	7825	7815	7805	2	3	5	7	8
°925	53	"7795	7785	7774	7764	7754	7744	7734	7723	7713	7703	2	3	5	7	9
°942	54	"7692	7682	7671	7661	7650	7640	7629	7618	7607	7597	2	4	5	7	9
°960	55	"7586	7575	7564	7553	7542	7531	7520	7509	7498	7487	2	4	6	7	9
°977	56	"7476	7464	7453	7442	7430	7419	7407	7396	7384	7373	2	4	6	8	10
°995	57	"7361	7349	7338	7326	7314	7302	7290	7278	7266	7254	2	4	6	8	10
1°012	58	"7242	7230	7218	7205	7193	7181	7168	7156	7144	7131	2	4	6	8	10
1°030	59	"7118	7106	7093	7080	7068	7055	7042	7029	7016	7003	2	4	6	9	11
1°047	60	"6990	6977	6963	6950	6937	6923	6910	6896	6883	6869	2	4	7	9	11
1°065	61	"6856	6842	6828	6814	6801	6787	6773	6759	6744	6730	2	5	7	9	12
1°082	62	"6716	6702	6687	6673	6659	6644	6629	6615	6600	6585	2	5	7	10	12
1°100	63	"6570	6556	6541	6526	6510	6495	6480	6465	6449	6434	3	5	8	10	13
1°117	64	"6418	6403	6387	6371	6356	6340	6324	6308	6292	6276	3	5	8	11	13
1°134	65	"6259	6243	6227	6210	6194	6177	6161	6144	6127	6110	3	6	8	11	14
1°152	66	"6093	6076	6059	6042	6024	6007	5990	5972	5954	5937	3	6	9	12	15
1°169	67	"5919	5901	5883	5865	5847	5828	5810	5792	5773	5754	3	6	9	12	15
1°187	68	"5736	5717	5698	5679	5660	5641	5621	5602	5583	5563	3	6	10	13	16
1°204	69	"5543	5523	5504	5484	5463	5443	5423	5402	5382	5361	3	7	10	14	17
1°222	70	"5341	5320	5299	5278	5256	5235	5213	5192	5170	5148	4	7	11	14	18
1°239	71	"5126	5104	5082	5060	5037	5015	4992	4969	4946	4923	4	8	11	15	19
1°257	72	"4900	4876	4853	4829	4805	4781	4757	4733	4709	4684	4	8	12	16	20
1°274	73	"4659	4634	4609	4584	4559	4533	4508	4482	4456	4430	4	9	13	17	21
1°292	74	"4403	4377	4350	4323	4296	4269	4242	4214	4186	4158	5	9	14	18	23
1°309	75	"4130	4102	4073	4044	4015	3986	3957	3927	3897	3867	5	10	15	20	24
1°326	76	"3837	3806	3775	3745	3713	3682	3650	3618	3586	3554	5	11	16	21	26
1°344	77	"3521	3488	3455	3421	3387	3353	3319	3284	3250	3214	6	11	17	23	28
1°361	78	"3179	3143	3107	3070	3034	2997	2959	2921	2883	2845	6	12	19	25	31
1°379	79	"2806	2767	2727	2687	2647	2606	2565	2524	2482	2439	7	14	20	27	34
1°396	80	"2397	2353	2310	2266	2221	2176	2131	2085	2038	1991	8	15	23	30	38
1°414	81	"1943	1895	1847	1797	1747	1697	1646	1594	1542	1489	8	17	25	34	42
1°431	82	"1436	1381	1326	1271	1214	1157	1099	1040	981	920	10	19	29	38	48
1°449	83	"0859	0797	0734	0670	0605	0539	0472	0403	0334	0264	11	22	33	44	55
1°466	84	"0192	0120	0046	0970	9894	9816	9736	9655	9573	9489	13	26	39	52	65
1°484	85	2°9403	9315	9226	9135	9042	8946	8849	8749	8647	8543	16	32	48	64	80
1°501	86	"8436	8326	8213	8098	7979	7857	7731	7602	7468	7330					
1°518	87	"7188	7041	6889	6731	6567	6397	6220	6035	5842	5640					
1°536	88	"5428	5200	4971	4723	4459	4179	3880	3558	3210	2832					
1°553	89	"2419	1961	1450	0870	0200	9408	8439	7190	5429	2419					
1°571	90	— ∞														

Radian = 0017 0035 0053 0070 0087 0105 0122 0140 0157

Radian.	Degree.	0°	5'	12'	18'	24'	30'	36'	42'	48'	54'	Mean Differences.				
		0° 0	0° 1	0° 2	0° 3	0° 4	0° 5	0° 6	0° 7	0° 8	0° 9	1'	2'	3'	4'	5'
0000	0	— ∞	3.2419	5429	7190	8439	9409	0200	0870	1450	1962					
0175	1	2.2419	2833	3211	3559	3881	4181	4461	4725	4973	5208					
0349	2	"5431	5643	5845	6038	6223	6401	6571	6736	6894	7046					
0524	3	"7194	7337	7475	7609	7739	7865	7988	8107	8223	8336					
0698	4	"8446	8554	8659	8762	8862	8960	9056	9150	9241	9331	16	32	48	64	81
0873	5	"9420	9506	9591	9674	9756	9836	9915	9992	0063	0143	13	26	40	53	66
1047	6	1.0216	0289	0360	0430	0499	0567	0633	0699	0764	0829	11	22	34	45	56
1222	7	"0891	0954	1015	1076	1135	1194	1252	1310	1367	1423	10	20	29	39	49
1396	8	"1473	1533	1587	1640	1693	1745	1797	1848	1898	1948	9	17	26	35	43
1571	9	"1997	2046	2094	2142	2189	2236	2282	2328	2374	2419	8	16	23	31	39
1745	10	"2463	2507	2551	2594	2637	2680	2722	2764	2805	2846	7	14	21	28	35
1920	11	"2887	2927	2967	3006	3046	3085	3123	3162	3200	3237	6	13	19	26	32
2094	12	"3275	3312	3349	3385	3422	3458	3493	3529	3564	3599	6	12	18	24	30
2269	13	"3634	3663	3702	3736	3770	3804	3837	3870	3903	3935	6	11	17	22	28
2443	14	"3968	4000	4032	4064	4095	4127	4158	4189	4220	4250	5	10	16	21	26
2618	15	"4281	4311	4341	4371	4400	4430	4459	4488	4517	4546	5	10	15	20	25
2793	16	"4575	4603	4632	4660	4688	4716	4744	4771	4799	4826	5	9	14	19	23
2967	17	"4853	4880	4907	4934	4961	4987	5014	5040	5066	5092	4	9	13	18	22
3142	18	"5118	5143	5169	5195	5220	5245	5270	5295	5320	5345	4	8	13	17	21
3316	19	"5370	5394	5419	5443	5467	5491	5516	5539	5563	5587	4	8	12	16	20
3491	20	"5611	5634	5658	5681	5704	5727	5750	5773	5796	5819	4	8	12	15	19
3665	21	"5842	5864	5887	5909	5932	5954	5976	5998	6020	6042	4	7	11	15	19
3840	22	"6064	6086	6108	6129	6151	6172	6194	6215	6236	6257	4	7	11	14	18
4014	23	"6279	6300	6321	6341	6362	6383	6404	6424	6445	6465	3	7	10	14	17
4189	24	"6486	6506	6527	6547	6567	6587	6607	6627	6647	6667	3	7	10	13	17
4363	25	"6687	6706	6726	6746	6765	6785	6804	6824	6843	6863	3	7	10	13	16
4538	26	"6882	6901	6920	6939	6958	6977	6996	7015	7034	7053	3	6	9	13	16
4712	27	"7072	7090	7109	7128	7146	7165	7183	7202	7220	7238	3	6	9	12	15
4887	28	"7257	7275	7293	7311	7330	7348	7366	7384	7402	7420	3	6	9	12	15
5061	29	"7438	7455	7473	7491	7509	7526	7544	7562	7579	7597	3	6	9	12	15
5236	30	"7614	7632	7649	7667	7684	7701	7719	7736	7753	7771	3	6	9	12	14
5411	31	"7788	7805	7822	7839	7856	7873	7890	7907	7924	7941	3	6	9	11	14
5585	32	"7958	7975	7992	8008	8025	8042	8059	8075	8092	8109	3	6	8	11	14
5760	33	"8125	8142	8158	8175	8191	8208	8224	8241	8257	8274	3	5	8	11	14
5934	34	"8290	8306	8323	8339	8355	8371	8388	8404	8420	8436	3	5	8	11	14
6109	35	"8452	8468	8484	8501	8517	8533	8549	8565	8581	8597	3	5	8	11	13
6283	36	"8613	8629	8644	8660	8676	8692	8708	8724	8740	8755	3	5	8	11	13
6458	37	"8771	8787	8803	8818	8834	8850	8865	8881	8897	8912	3	5	8	10	13
6632	38	"8928	8944	8959	8975	8990	9006	9022	9037	9053	9068	3	5	8	10	13
6807	39	"9084	9099	9115	9130	9146	9161	9176	9192	9207	9223	3	5	8	10	13
6981	40	"9238	9254	9269	9284	9300	9315	9330	9346	9361	9376	3	5	8	10	13
7156	41	"9392	9407	9422	9438	9453	9468	9483	9499	9514	9529	3	5	8	10	13
7330	42	"9544	9560	9575	9590	9605	9621	9636	9651	9666	9681	3	5	8	10	13
7505	43	"9697	9712	9727	9742	9757	9773	9788	9803	9818	9833	3	5	8	10	13
7679	44	"9848	9864	9879	9894	9909	9924	9939	9955	9970	9985	3	5	8	10	13
7854	45	0.0000	0015	0030	0045	0061	0076	0091	0106	0121	0136	3	5	8	10	13

Radian = 0017 0035 0052 0070 0087 0105 0122 0140 0157

Radian.	Degree.											Mean Differences.				
		0°	5'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
		0°·0	0°·1	0°·2	0°·3	0°·4	0°·5	0°·6	0°·7	0°·8	0°·9					
*785	45	*0000	0015	0030	0045	0061	0076	0091	0106	0121	0136	2	5	8	10	13
*803	46	*0152	0167	0182	0197	0212	0228	0243	0258	0273	0288	3	5	8	10	13
*820	47	*0303	0319	0334	0349	0364	0379	0395	0410	0425	0440	3	5	8	10	13
*838	48	*0456	0471	0486	0501	0517	0532	0547	0562	0578	0593	3	5	8	10	13
*855	49	*0608	0624	0639	0654	0670	0685	0700	0716	0731	0746	3	5	8	10	13
*873	50	*0762	0777	0793	0808	0824	0839	0854	0870	0885	0901	3	5	8	10	13
*890	51	*0916	0932	0947	0963	0978	0994	1010	1025	1041	1056	3	5	8	10	13
*908	52	*1072	1088	1103	1119	1135	1150	1166	1182	1197	1213	3	5	8	10	13
*925	53	*1229	1245	1260	1276	1292	1308	1324	1340	1356	1371	3	5	8	11	13
*942	54	*1387	1403	1419	1435	1451	1467	1483	1499	1516	1532	3	5	8	11	13
*960	55	*1548	1564	1580	1596	1612	1629	1645	1661	1677	1694	3	5	8	11	14
*977	56	*1710	1726	1743	1759	1776	1792	1809	1825	1842	1858	3	5	8	11	14
*995	57	*1875	1891	1908	1925	1941	1958	1975	1992	2008	2025	3	6	8	11	14
1·012	58	*2042	2059	2076	2093	2110	2127	2144	2161	2178	2195	3	6	9	11	14
1·030	59	*2212	2229	2247	2264	2281	2299	2316	2333	2351	2368	3	6	9	12	14
1·047	60	*2386	2403	2421	2438	2456	2474	2491	2509	2527	2545	3	6	9	12	15
1·065	61	*2562	2580	2598	2616	2634	2652	2670	2689	2707	2725	3	6	9	12	15
1·082	62	*2743	2762	2780	2798	2817	2835	2854	2872	2891	2910	3	6	9	12	15
1·100	63	*2928	2947	2966	2985	3004	3023	3042	3061	3080	3099	3	6	9	13	16
1·117	64	*3118	3137	3157	3176	3196	3215	3235	3254	3274	3294	3	6	10	13	16
1·134	65	*3313	3333	3353	3373	3393	3413	3433	3453	3473	3494	3	7	10	13	17
1·152	66	*3514	3535	3555	3576	3596	3617	3638	3659	3679	3700	3	7	10	14	17
1·169	67	*3721	3743	3764	3785	3806	3828	3849	3871	3892	3914	4	7	11	14	18
1·187	68	*3936	3958	3980	4002	4024	4046	4068	4091	4113	4136	4	7	11	15	19
1·204	69	*4153	4181	4204	4227	4250	4273	4296	4319	4342	4366	4	8	12	15	19
1·222	70	*4389	4413	4437	4461	4484	4509	4533	4557	4581	4606	4	8	12	16	20
1·239	71	*4630	4655	4680	4705	4730	4755	4780	4805	4831	4857	4	8	13	17	21
1·257	72	*4882	4908	4934	4960	4986	5013	5039	5066	5093	5120	4	9	13	18	22
1·274	73	*5147	5174	5201	5229	5256	5284	5312	5340	5368	5397	5	9	14	19	23
1·292	74	*5425	5454	5483	5512	5541	5570	5600	5629	5659	5689	5	10	15	20	25
1·309	75	*5719	5750	5780	5811	5842	5873	5905	5936	5968	6000	5	10	16	21	26
1·326	76	*6032	6065	6097	6130	6163	6196	6230	6264	6298	6332	6	11	17	22	28
1·344	77	*6366	6401	6436	6471	6507	6542	6578	6615	6651	6688	6	12	18	24	30
1·361	78	*6725	6763	6800	6838	6877	6915	6954	6994	7033	7073	6	13	19	26	32
1·379	79	*7113	7154	7195	7236	7278	7320	7363	7406	7449	7493	7	14	21	28	35
1·396	80	*7537	7581	7626	7672	7718	7764	7811	7858	7906	7954	8	16	23	31	39
1·414	81	*8003	8052	8102	8152	8203	8255	8307	8360	8413	8467	9	17	26	35	43
1·431	82	*8522	8577	8633	8690	8748	8806	8865	8924	8985	9046	10	20	29	39	49
1·449	83	*9109	9172	9236	9301	9367	9433	9501	9570	9640	9711	11	12	34	45	56
1·466	84	*9784	9857	9932	0008	0085	0164	0244	0326	0409	0494	13	26	40	53	66
1·484	85	1·0580	0660	0759	0850	0944	1040	1138	1238	1341	1446	16	32	48	64	81
1·501	86	1·1554	1664	1777	1893	2012	2135	2261	2391	2525	2663					
1·518	87	1·2806	2954	3106	3264	3429	3599	3777	3962	4155	4357					
1·536	88	1·4569	4792	5027	5275	5539	5819	6119	6441	6789	7167					
1·553	89	1·7581	8085	8550	9130	9800	0591	1561	2810	4571	7581					
1·571	90	+∞														

Radian = 0017 0035 0052 0070 0087 0105 0122 0140 0157

Radian.	Degree.	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	Mean Differences.				
		0° 0	0° 1	0° 2	0° 3	0° 4	0° 5	0° 6	0° 7	0° 8	0° 9	1'	2'	3'	4'	5'
·0000	0	·0000	0017	0035	0052	0070	0087	0105	0122	0140	0157	3	6	9	12	15
·0175	1	·0175	0192	0209	0227	0244	0262	0279	0297	0314	0332	3	6	9	12	15
·0349	2	·0349	0366	0384	0401	0419	0436	0454	0471	0488	0506	3	6	9	12	15
·0524	3	·0523	0541	0558	0576	0593	0610	0628	0645	0663	0680	3	6	9	12	15
·0698	4	·0698	0715	0732	0750	0767	0785	0802	0819	0837	0854	3	6	9	12	14
·0873	5	·0872	0889	0906	0924	0941	0958	0976	0993	1011	1028	3	6	9	12	14
·1047	6	·1045	1063	1080	1097	1115	1132	1149	1167	1184	1201	3	6	9	12	14
·1222	7	·1219	1236	1253	1271	1288	1305	1323	1340	1357	1374	3	6	9	12	14
·1396	8	·1392	1409	1426	1444	1461	1478	1495	1513	1530	1547	3	6	9	12	14
·1571	9	·1564	1582	1599	1616	1633	1650	1668	1685	1702	1719	3	6	9	12	14
·1745	10	·1736	1754	1771	1788	1805	1822	1840	1857	1874	1891	3	6	9	11	14
·1920	11	·1908	1925	1942	1959	1977	1994	2011	2028	2045	2062	3	6	9	11	14
·2094	12	·2079	2096	2113	2130	2147	2164	2181	2198	2215	2233	3	6	9	11	14
·2269	13	·2250	2267	2284	2300	2317	2334	2351	2368	2385	2402	3	6	8	11	14
·2443	14	·2419	2436	2453	2470	2487	2504	2521	2538	2554	2571	3	6	8	11	14
·2618	15	·2588	2605	2622	2639	2656	2672	2689	2706	2723	2740	3	6	8	11	14
·2793	16	·2756	2773	2790	2807	2823	2840	2857	2874	2890	2907	3	6	8	11	14
·2967	17	·2924	2940	2957	2974	2990	3007	3024	3040	3057	3074	3	6	8	11	14
·3142	18	·3090	3107	3123	3140	3156	3173	3190	3206	3223	3239	3	6	8	11	14
·3316	19	·3256	3272	3289	3305	3322	3338	3355	3371	3387	3404	3	5	8	11	14
·3491	20	·3420	3437	3453	3469	3486	3502	3518	3535	3551	3567	3	5	8	11	14
·3665	21	·3584	3600	3616	3633	3649	3665	3681	3697	3714	3730	3	5	8	11	14
·3840	22	·3746	3762	3778	3795	3811	3827	3843	3859	3875	3891	3	5	8	11	14
·4014	23	·3907	3923	3939	3955	3971	3987	4003	4019	4035	4051	3	5	8	11	14
·4189	24	·4067	4083	4099	4115	4131	4147	4163	4179	4195	4210	3	5	8	11	13
·4363	25	·4226	4242	4258	4274	4289	4305	4321	4337	4352	4368	3	5	8	11	13
·4538	26	·4384	4399	4415	4431	4446	4462	4478	4493	4509	4524	3	5	8	10	13
·4712	27	·4540	4555	4571	4586	4602	4617	4633	4648	4664	4679	3	5	8	10	13
·4887	28	·4695	4710	4726	4741	4756	4772	4787	4802	4818	4833	3	5	8	10	13
·5061	29	·4848	4863	4879	4894	4909	4924	4939	4955	4970	4985	3	5	8	10	13
·5236	30	·5000	5015	5030	5045	5060	5075	5090	5105	5120	5135	3	5	8	10	13
·5411	31	·5150	5165	5180	5195	5210	5225	5240	5255	5270	5284	2	5	7	10	12
·5585	32	·5209	5214	5229	5244	5258	5273	5288	5292	5307	5322	2	5	7	10	12
·5760	33	·5446	5461	5476	5490	5505	5519	5534	5548	5563	5577	2	5	7	10	12
·5934	34	·5592	5606	5621	5635	5650	5664	5678	5693	5707	5721	2	5	7	10	12
·6109	35	·5736	5750	5764	5779	5793	5807	5821	5835	5850	5864	2	5	7	9	12
·6283	36	·5878	5892	5906	5920	5934	5948	5962	5976	5990	6004	2	5	7	9	12
·6458	37	·6018	6032	6046	6060	6074	6088	6101	6115	6129	6143	2	5	7	9	12
·6632	38	·6157	6170	6184	6198	6211	6225	6239	6252	6266	6280	2	5	7	9	11
·6807	39	·6293	6307	6320	6334	6347	6361	6374	6388	6401	6414	2	4	7	9	11
·6981	40	·6428	6441	6455	6468	6481	6494	6508	6521	6534	6547	2	4	7	9	11
·7156	41	·6561	6574	6587	6600	6613	6626	6639	6652	6665	6678	2	4	7	9	11
·7330	42	·6691	6704	6717	6730	6743	6756	6769	6782	6794	6807	2	4	6	9	11
·7505	43	·6820	6833	6845	6858	6871	6884	6896	6909	6921	6934	2	4	6	8	11
·7679	44	·6947	6959	6972	6984	6997	7009	7022	7034	7046	7059	2	4	6	8	10
·7854	45	·7071	7083	7096	7108	7120	7133	7145	7157	7169	7181	2	4	6	8	10

Radian = 0017 | 0035 | 0052 | 0070 | 0087 | 0105 | 0122 | 0140 | 0157 |

Radian.	Degree.											Mean Differences.				
		0°0'	0°1'	0°2'	0°3'	0°4'	0°5'	0°6'	0°7'	0°8'	0°9'	1'	2'	3'	4'	5'
·785	45	·7071	7083	7096	7108	7120	7133	7145	7157	7169	7181	2	4	6	8	10
·803	46	·7193	7206	7218	7230	7242	7254	7266	7278	7290	7302	2	4	6	8	10
·820	47	·7314	7325	7337	7349	7361	7373	7385	7396	7408	7420	2	4	6	8	10
·838	48	·7431	7443	7455	7466	7478	7490	7501	7513	7524	7536	2	4	6	8	10
·855	49	·7547	7559	7570	7581	7593	7604	7615	7627	7638	7649	2	4	6	8	9
·873	50	·7660	7672	7683	7694	7705	7716	7727	7738	7749	7760	2	4	6	7	9
·890	51	·7771	7782	7793	7804	7815	7826	7837	7848	7859	7869	2	4	5	7	9
·908	52	·7880	7891	7902	7912	7923	7934	7944	7955	7965	7976	2	4	5	7	9
·925	53	·7986	7997	8007	8018	8028	8039	8049	8059	8070	8080	2	3	5	7	9
·942	54	·8090	8100	8111	8121	8131	8141	8151	8161	8171	8181	2	3	5	7	8
·960	55	·8192	8202	8211	8221	8231	8241	8251	8261	8271	8281	2	3	5	7	8
·977	56	·8290	8300	8310	8320	8329	8339	8348	8358	8368	8377	2	3	5	6	8
·995	57	·8387	8396	8406	8415	8425	8434	8443	8453	8462	8471	2	3	5	6	8
1·012	58	·8480	8490	8499	8508	8517	8526	8536	8545	8554	8563	2	3	5	6	8
1·030	59	·8572	8581	8590	8599	8607	8616	8625	8634	8643	8652	1	3	4	6	7
1·047	60	·8660	8669	8678	8686	8695	8704	8712	8721	8729	8738	1	3	4	6	7
1·065	61	·8746	8755	8763	8771	8780	8788	8796	8805	8813	8821	1	3	4	6	7
1·082	62	·8829	8838	8846	8854	8862	8870	8878	8886	8894	8902	1	3	4	5	7
1·100	63	·8910	8918	8926	8934	8942	8949	8957	8965	8973	8980	1	3	4	5	6
1·117	64	·8988	8996	9003	9011	9018	9026	9033	9041	9048	9056	1	3	4	5	6
1·134	65	·9063	9070	9078	9085	9092	9100	9107	9114	9121	9128	1	2	4	5	6
1·152	66	·9135	9143	9150	9157	9164	9171	9178	9184	9191	9198	1	2	3	5	6
1·169	67	·9205	9212	9219	9225	9232	9239	9245	9252	9259	9265	1	2	3	4	6
1·187	68	·9272	9278	9285	9291	9298	9304	9311	9317	9323	9330	1	2	3	4	5
1·204	69	·9336	9342	9348	9354	9361	9367	9373	9379	9385	9391	1	2	3	4	5
1·222	70	·9397	9403	9409	9415	9421	9426	9432	9438	9444	9449	1	2	3	4	5
1·239	71	·9455	9461	9466	9472	9478	9483	9489	9494	9500	9505	1	2	3	4	5
1·257	72	·9511	9516	9521	9527	9532	9537	9542	9548	9553	9558	1	2	3	3	4
1·274	73	·9563	9568	9573	9578	9583	9588	9593	9598	9603	9608	1	2	2	3	4
1·292	74	·9613	9617	9622	9627	9632	9636	9641	9646	9650	9655	1	2	2	3	4
1·309	75	·9659	9664	9668	9673	9677	9681	9686	9690	9694	9699	1	1	2	3	4
1·326	76	·9703	9707	9711	9715	9720	9724	9728	9732	9736	9740	1	1	2	3	3
1·344	77	·9744	9748	9751	9755	9759	9763	9767	9770	9774	9778	1	1	2	3	3
1·361	78	·9781	9785	9789	9792	9796	9799	9803	9806	9810	9813	1	1	2	2	3
1·379	79	·9816	9820	9823	9826	9829	9833	9836	9839	9842	9845	1	1	2	2	3
1·396	80	·9848	9851	9854	9857	9860	9863	9866	9869	9871	9874	0	1	1	2	2
1·414	81	·9877	9880	9882	9885	9888	9890	9893	9895	9898	9900	0	1	1	2	2
1·431	82	·9903	9905	9907	9910	9912	9914	9917	9919	9921	9923	0	1	1	2	2
1·449	83	·9925	9928	9930	9932	9934	9936	9938	9940	9942	9943	0	1	1	1	2
1·466	84	·9945	9947	9949	9951	9952	9954	9956	9957	9959	9960	0	1	1	1	2
1·484	85	·9962	9963	9965	9966	9968	9969	9971	9972	9973	9974	0	0	1	1	1
1·501	86	·9976	9977	9978	9979	9980	9981	9982	9983	9984	9985	0	0	1	1	1
1·518	87	·9986	9987	9988	9989	9990	9990	9991	9992	9993	9993	0	0	0	1	1
1·536	88	·9994	9995	9995	9996	9996	9997	9997	9997	9998	9998	0	0	0	0	0
1·553	89	·9998	9999	9999	9999	9999	1·000	1·000	1·000	1·000	1·000	0	0	0	0	0
1·571	90	1·000														

Radian = 0017 0035 0052 0070 0087 0105 0122 0140 0157

Radian.	Degree.	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	Mean Differences.				
		0° 0	0° 1	0° 2	0° 3	0° 4	0° 5	0° 6	0° 7	0° 8	0° 9	1'	2'	3'	4'	5'
.0000	0	1.000	1.000	1.000	1.000	1.000	1.000	.9999	.9999	.9999	.9999	0	0	0	0	0
.0175	1	.9998	.9998	.9998	.9997	.9997	.9997	.9996	.9996	.9995	.9995	0	0	0	0	0
.0349	2	.9994	.9993	.9993	.9992	.9991	.9990	.9990	.9989	.9988	.9987	0	0	0	1	1
.0524	3	.9986	.9985	.9984	.9983	.9982	.9981	.9980	.9979	.9978	.9977	0	0	1	1	1
.0698	4	.9976	.9974	.9973	.9972	.9971	.9969	.9968	.9966	.9965	.9963	0	0	1	1	1
.0873	5	.9962	.9960	.9959	.9957	.9956	.9954	.9952	.9951	.9949	.9947	0	1	1	1	1
.1047	6	.9945	.9943	.9942	.9940	.9938	.9936	.9934	.9932	.9930	.9928	0	1	1	1	1
.1222	7	.9925	.9923	.9921	.9919	.9917	.9914	.9912	.9910	.9907	.9905	0	1	1	2	2
.1396	8	.9903	.9900	.9898	.9895	.9893	.9890	.9888	.9885	.9882	.9880	0	1	1	2	2
.1571	9	.9877	.9874	.9871	.9869	.9866	.9863	.9860	.9857	.9854	.9851	0	1	1	2	2
.1745	10	.9848	.9845	.9842	.9839	.9836	.9833	.9829	.9826	.9823	.9820	1	1	2	2	3
.1920	11	.9816	.9813	.9810	.9808	.9803	.9799	.9796	.9792	.9789	.9785	1	1	2	2	3
.2094	12	.9781	.9778	.9774	.9770	.9767	.9763	.9759	.9755	.9751	.9748	1	1	2	3	3
.2269	13	.9744	.9740	.9736	.9732	.9728	.9724	.9720	.9715	.9711	.9707	1	1	2	3	3
.2443	14	.9703	.9699	.9694	.9690	.9686	.9681	.9677	.9673	.9668	.9664	1	1	2	3	4
.2618	15	.9659	.9655	.9650	.9646	.9641	.9636	.9632	.9627	.9622	.9617	1	2	2	3	4
.2793	16	.9613	.9608	.9603	.9598	.9593	.9588	.9583	.9578	.9573	.9568	1	2	2	3	4
.2967	17	.9563	.9558	.9553	.9548	.9542	.9537	.9532	.9527	.9521	.9516	1	2	3	3	4
.3142	18	.9511	.9505	.9500	.9494	.9489	.9483	.9478	.9472	.9466	.9461	1	2	3	4	5
.3316	19	.9455	.9449	.9444	.9438	.9432	.9426	.9421	.9415	.9409	.9403	1	2	3	4	5
.3491	20	.9397	.9391	.9385	.9379	.9373	.9367	.9361	.9354	.9348	.9342	1	2	3	4	5
.3665	21	.9336	.9330	.9323	.9317	.9311	.9304	.9298	.9291	.9285	.9278	1	2	3	4	5
.3840	22	.9272	.9265	.9259	.9252	.9245	.9239	.9232	.9225	.9219	.9212	1	2	3	4	6
.4014	23	.9205	.9198	.9191	.9184	.9178	.9171	.9164	.9157	.9150	.9143	1	2	3	5	6
.4189	24	.9135	.9128	.9121	.9114	.9107	.9100	.9092	.9085	.9078	.9070	1	2	4	5	6
.4363	25	.9063	.9056	.9048	.9041	.9033	.9026	.9018	.9011	.9003	.8996	1	3	4	5	6
.4538	26	.8988	.8980	.8973	.8965	.8957	.8949	.8942	.8934	.8926	.8918	1	3	4	5	6
.4712	27	.8910	.8902	.8894	.8886	.8878	.8870	.8862	.8854	.8846	.8838	1	3	4	5	7
.4887	28	.8829	.8821	.8813	.8805	.8796	.8788	.8780	.8771	.8763	.8755	1	3	4	6	7
.5061	29	.8746	.8738	.8729	.8721	.8712	.8704	.8695	.8686	.8678	.8669	1	3	4	6	7
.5236	30	.8660	.8652	.8643	.8634	.8625	.8616	.8607	.8599	.8590	.8581	1	3	4	6	7
.5411	31	.8572	.8563	.8554	.8545	.8536	.8526	.8517	.8508	.8499	.8490	2	3	5	6	8
.5585	32	.8480	.8471	.8462	.8453	.8443	.8434	.8425	.8415	.8406	.8396	2	3	5	6	8
.5760	33	.8387	.8377	.8368	.8358	.8348	.8339	.8329	.8320	.8310	.8300	2	3	5	6	8
.5934	34	.8290	.8281	.8271	.8261	.8251	.8241	.8231	.8221	.8211	.8202	2	3	5	7	8
.6109	35	.8192	.8181	.8171	.8161	.8151	.8141	.8131	.8121	.8111	.8100	2	3	5	7	8
.6283	36	.8090	.8080	.8070	.8059	.8049	.8039	.8028	.8018	.8007	.7997	2	3	5	7	9
.6458	37	.7986	.7976	.7965	.7955	.7944	.7934	.7923	.7912	.7902	.7891	2	4	5	7	9
.6632	38	.7880	.7869	.7859	.7848	.7837	.7826	.7815	.7804	.7793	.7782	2	4	5	7	9
.6807	39	.7771	.7760	.7749	.7738	.7727	.7716	.7705	.7694	.7683	.7672	2	4	6	7	9
.6981	40	.7660	.7649	.7638	.7627	.7615	.7604	.7593	.7581	.7570	.7559	2	4	6	8	9
.7156	41	.7547	.7536	.7524	.7513	.7501	.7490	.7478	.7466	.7455	.7443	2	4	6	8	10
.7330	42	.7431	.7420	.7408	.7396	.7385	.7373	.7361	.7349	.7337	.7325	2	4	6	8	10
.7505	43	.7314	.7302	.7290	.7278	.7266	.7254	.7242	.7230	.7218	.7206	2	4	6	8	10
.7679	44	.7193	.7181	.7169	.7157	.7145	.7133	.7120	.7108	.7096	.7083	2	4	6	8	10
.7854	45	.7071	.7059	.7046	.7034	.7022	.7009	.6997	.6984	.6972	.6959	2	4	6	8	10

Radian = 0017 0035 0052 0070 0087 0105 0122 0140 0157

Radian.	Degree.											Mean Differences.				
		0°	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
·785	45	·7071	7059	7046	7034	7022	7009	6997	6984	6972	6959	2	4	6	8	10
·803	46	·6947	6934	6921	6909	6896	6884	6871	6858	6845	6833	2	4	6	8	11
·820	47	·6820	6807	6794	6782	6769	6756	6743	6730	6717	6704	2	4	6	9	11
·838	48	·6691	6678	6665	6652	6639	6626	6613	6600	6587	6574	2	4	7	9	11
·855	49	·6561	6547	6534	6521	6508	6494	6481	6468	6455	6441	2	4	7	9	11
·873	50	·6428	6414	6401	6388	6374	6361	6347	6334	6320	6307	2	4	7	9	11
·890	51	·6293	6280	6266	6252	6239	6225	6211	6198	6184	6170	2	5	7	9	11
·905	52	·6157	6143	6129	6115	6101	6088	6074	6060	6046	6032	2	5	7	9	12
·925	53	·6018	6004	5990	5976	5962	5948	5934	5920	5906	5892	2	5	7	9	12
·942	54	·5878	5864	5850	5835	5821	5807	5793	5779	5764	5750	2	5	7	9	12
·960	55	·5736	5721	5707	5693	5678	5664	5650	5635	5621	5606	2	5	7	10	12
·977	56	·5592	5577	5563	5548	5534	5519	5505	5490	5476	5461	2	5	7	10	12
·995	57	·5446	5432	5417	5402	5388	5373	5358	5344	5329	5314	2	5	7	10	12
1·012	58	·5299	5284	5270	5255	5240	5225	5210	5195	5180	5165	2	5	7	10	12
1·030	59	·5150	5135	5120	5105	5090	5075	5060	5045	5030	5015	3	5	8	10	13
1·047	60	·5000	4985	4970	4955	4939	4924	4909	4894	4879	4863	3	5	8	10	13
1·065	61	·4848	4833	4818	4802	4787	4772	4756	4741	4726	4710	3	5	8	10	13
1·082	62	·4695	4679	4664	4648	4633	4617	4602	4586	4571	4555	3	5	8	10	13
1·100	63	·4540	4524	4509	4493	4478	4462	4446	4431	4415	4399	3	5	8	10	13
1·117	64	·4384	4368	4352	4337	4321	4305	4289	4274	4258	4242	3	5	8	11	13
1·134	65	·4226	4210	4195	4179	4163	4147	4131	4115	4099	4083	3	5	8	11	13
1·152	66	·4067	4051	4035	4019	4003	3987	3971	3955	3939	3923	3	5	8	11	14
1·169	67	·3907	3891	3875	3859	3843	3827	3811	3795	3778	3762	3	5	8	11	14
1·187	68	·3746	3730	3714	3697	3681	3665	3649	3633	3616	3600	3	5	8	11	14
1·204	69	·3584	3567	3551	3535	3518	3502	3486	3469	3453	3437	3	5	8	11	14
1·222	70	·3420	3404	3387	3371	3355	3338	3322	3305	3289	3272	3	5	8	11	14
1·239	71	·3256	3239	3223	3206	3190	3173	3156	3140	3123	3107	3	6	8	11	14
1·257	72	·3090	3074	3057	3040	3024	3007	2990	2974	2957	2940	3	6	8	11	14
1·274	73	·2924	2907	2890	2874	2857	2840	2823	2807	2790	2773	3	6	8	11	14
1·292	74	·2756	2740	2723	2706	2689	2672	2656	2639	2622	2605	3	6	8	11	14
1·309	75	·2588	2571	2554	2538	2521	2504	2487	2470	2453	2436	3	6	8	11	14
1·326	76	·2419	2402	2385	2368	2351	2334	2317	2300	2284	2267	3	6	8	11	14
1·344	77	·2250	2233	2215	2198	2181	2164	2147	2130	2113	2096	3	6	9	11	14
1·361	78	·2079	2062	2045	2028	2011	1994	1977	1959	1942	1925	3	6	9	11	14
1·379	79	·1908	1891	1874	1857	1840	1822	1805	1788	1771	1754	3	6	9	11	14
1·396	80	·1736	1719	1702	1685	1668	1650	1633	1616	1599	1582	3	6	9	12	14
1·414	81	·1564	1547	1530	1513	1495	1478	1461	1444	1426	1409	3	6	9	12	14
1·431	82	·1392	1374	1357	1340	1323	1305	1288	1271	1253	1236	3	6	9	12	14
1·448	83	·1219	1201	1184	1167	1149	1132	1115	1097	1080	1063	3	6	9	12	14
1·466	84	·1045	1028	1011	993	976	958	941	924	906	889	3	6	9	12	14
1·484	85	·0872	0854	0837	0819	0802	0785	0767	0750	0732	0715	3	6	9	12	14
1·501	86	·0698	0680	0663	0645	0628	0610	0593	0576	0558	0541	3	6	9	12	15
1·518	87	·0523	0506	0488	0471	0454	0436	0419	0401	0384	0366	3	6	9	12	15
1·536	88	·0349	0332	0314	0297	0279	0262	0244	0227	0209	0192	3	6	9	12	15
1·553	89	·0175	0157	0140	0122	0105	0087	0070	0052	0035	0017	3	6	9	12	15
1·571	90	·0000														

Radian = 0017 0035 0052 0070 0087 0105 0122 0140 0157

Radian.	Degree.											Mean Differences.				
		0'	5'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
0000	0	0000	0017	0035	0052	0070	0087	0105	0122	0140	0157	3	6	9	12	15
0175	1	0175	0192	0209	0227	0244	0262	0279	0297	0314	0332	3	6	9	12	15
0349	2	0349	0367	0384	0402	0419	0437	0454	0472	0489	0507	3	6	9	12	15
0524	3	0524	0542	0559	0577	0594	0612	0630	0647	0664	0682	3	6	9	12	15
0698	4	0699	0717	0734	0752	0769	0787	0805	0822	0840	0857	3	6	9	12	15
0873	5	0875	0892	0910	0928	0945	0963	0981	0998	1016	1033	3	6	9	12	15
1047	6	1051	1069	1086	1104	1122	1139	1157	1175	1192	1210	3	6	9	12	15
1222	7	1228	1246	1263	1281	1299	1317	1334	1352	1370	1388	3	6	9	12	15
1396	8	1405	1423	1441	1459	1477	1495	1512	1530	1548	1566	3	6	9	12	15
1571	9	1584	1601	1620	1638	1655	1673	1691	1709	1727	1745	3	6	9	12	15
1745	10	1763	1781	1799	1817	1835	1853	1871	1890	1908	1926	3	6	9	12	15
1920	11	1944	1962	1980	1998	2016	2035	2053	2071	2089	2107	3	6	9	12	15
2094	12	2126	2144	2162	2180	2199	2217	2235	2254	2272	2290	3	6	9	12	15
2269	13	2309	2327	2345	2364	2382	2401	2419	2438	2456	2475	3	6	9	12	15
2443	14	2493	2512	2530	2549	2568	2586	2605	2623	2642	2661	3	6	9	12	16
2618	15	2679	2698	2717	2736	2754	2773	2792	2811	2830	2849	3	6	9	13	16
2793	16	2867	2886	2905	2924	2943	2962	2981	3000	3019	3038	3	6	9	13	16
2967	17	3057	3076	3096	3115	3134	3153	3172	3191	3211	3230	3	6	10	13	16
3142	18	3249	3269	3288	3307	3327	3346	3365	3385	3404	3424	3	6	10	13	16
3316	19	3443	3463	3482	3502	3522	3541	3561	3581	3600	3620	3	7	10	13	16
3491	20	3640	3659	3679	3699	3719	3739	3759	3779	3799	3819	3	7	10	13	17
3665	21	3839	3859	3879	3899	3919	3939	3959	3979	4000	4020	3	7	10	13	17
3840	22	4040	4061	4081	4101	4122	4142	4163	4183	4204	4224	3	7	10	14	17
4014	23	4245	4265	4286	4307	4327	4348	4369	4390	4411	4431	3	7	10	14	17
4189	24	4462	4473	4494	4515	4536	4557	4578	4599	4621	4642	4	7	11	14	18
4363	25	4663	4684	4706	4727	4748	4770	4791	4813	4834	4856	4	7	11	14	18
4538	26	4877	4899	4921	4942	4964	4986	5008	5029	5051	5073	4	7	11	15	18
4712	27	5095	5117	5139	5161	5184	5206	5228	5250	5272	5295	4	7	11	15	18
4887	28	5317	5340	5362	5384	5407	5430	5452	5475	5498	5520	4	8	11	15	19
5061	29	5543	5566	5589	5612	5635	5658	5681	5704	5727	5750	4	8	12	15	19
5236	30	5774	5797	5820	5844	5867	5890	5914	5938	5961	5985	4	8	12	16	20
5411	31	6009	6032	6056	6080	6104	6128	6152	6176	6200	6224	4	8	12	16	20
5585	32	6249	6273	6297	6322	6346	6371	6395	6420	6445	6469	4	8	12	16	20
5760	33	6494	6519	6544	6569	6594	6619	6644	6669	6694	6720	4	8	13	17	21
5934	34	6745	6771	6796	6822	6847	6873	6899	6924	6950	6976	4	9	13	17	21
6109	35	7002	7028	7054	7080	7107	7133	7159	7186	7212	7239	4	9	13	18	22
6283	36	7265	7292	7319	7346	7373	7400	7427	7454	7481	7508	5	9	14	18	23
6458	37	7536	7563	7590	7618	7646	7673	7701	7729	7757	7785	5	9	14	18	23
6632	38	7813	7841	7869	7898	7926	7954	7983	8012	8040	8069	5	9	14	19	24
6807	39	8098	8127	8156	8185	8214	8243	8273	8302	8332	8361	5	10	15	20	24
6981	40	8391	8421	8451	8481	8511	8541	8571	8601	8632	8662	5	10	15	20	25
7156	41	8693	8724	8754	8785	8816	8847	8878	8910	8941	8972	5	10	16	21	26
7330	42	9004	9036	9067	9099	9131	9163	9195	9228	9260	9293	5	11	16	21	27
7505	43	9325	9358	9391	9424	9457	9490	9523	9556	9590	9623	6	11	17	22	28
7679	44	9657	9691	9725	9759	9793	9827	9861	9896	9930	9965	6	11	17	23	29
7854	45	10000	0035	0070	0105	0141	0176	0212	0247	0283	0319	6	12	18	24	30

Radian = 0017 0035 0052 0070 0087 0105 0122 0140 0157

Radian.	Degree.											Mean Differences.				
		0'	5'	12'	18'	24'	30'	35'	42'	48'	54'	1'	2'	3'	4'	5'
·785	45	1·0000	0035	0070	0105	0141	0176	0212	0247	0283	0319	6	12	18	24	30
·803	46	1·0355	0392	0428	0464	0501	0538	0575	0612	0649	0686	6	12	18	25	31
·820	47	1·0724	0761	0799	0837	0875	0913	0951	0990	1028	1067	6	13	19	25	32
·838	48	1·1106	1145	1184	1224	1263	1303	1343	1383	1423	1463	7	13	20	27	33
·855	49	1·1504	1544	1585	1626	1667	1708	1750	1792	1833	1875	7	14	21	28	34
·873	50	1·1918	1960	2002	2045	2088	2131	2174	2218	2261	2305	7	14	22	29	36
·890	51	1·2349	2393	2437	2482	2527	2572	2617	2662	2708	2753	8	15	23	30	38
·908	52	1·2799	2846	2892	2938	2985	3032	3079	3127	3175	3222	8	16	24	31	39
·925	53	1·3270	3319	3367	3416	3465	3514	3564	3613	3663	3713	8	16	25	33	41
·942	54	1·3764	3814	3865	3916	3968	4019	4071	4124	4176	4229	9	17	26	34	43
·960	55	1·4281	4335	4388	4442	4496	4550	4605	4659	4715	4770	9	18	27	36	45
·977	56	1·4826	4882	4938	4994	5051	5108	5166	5224	5282	5340	10	19	29	38	48
·995	57	1·5399	5458	5517	5577	5637	5697	5757	5818	5880	5941	10	20	30	40	50
1·012	58	1·6003	6066	6128	6191	6255	6319	6383	6447	6512	6577	11	21	32	43	53
1·030	59	1·6643	6709	6775	6842	6909	6977	7045	7113	7182	7251	11	23	34	45	56
1·047	60	1·7321	7391	7461	7532	7603	7675	7747	7820	7893	7966	12	24	36	48	60
1·065	61	1·8040	8115	8190	8265	8341	8418	8495	8572	8650	8728	13	26	38	51	64
1·082	62	1·8807	8887	8967	9047	9128	9210	9292	9375	9458	9542	14	27	41	55	68
1·100	63	1·9626	9711	9797	9883	9970	0057	0145	0233	0323	0413	15	29	44	58	73
1·117	64	2·0503	0594	0686	0778	0872	0965	1060	1155	1251	1348	16	31	47	63	78
1·134	65	2·1445	1543	1642	1742	1842	1943	2045	2148	2251	2355	17	34	51	68	85
1·152	66	2·2460	2566	2673	2781	2889	2995	3109	3220	3332	3445	18	37	55	73	92
1·169	67	2·3559	3673	3789	3906	4023	4142	4262	4383	4504	4627	20	40	60	79	99
1·187	68	2·4751	4876	5002	5129	5257	5386	5517	5649	5782	5916	22	43	65	87	108
1·204	69	2·6051	6187	6325	6464	6605	6746	6889	7034	7179	7326	24	47	71	95	119
1·222	70	2·7475	7625	7776	7929	8083	8239	8397	8556	8716	8878	26	52	78	104	131
1·239	71	2·9042	9208	9375	9544	9714	9887	0061	0237	0415	0595	29	58	87	116	145
1·257	72	3·0777	0961	1146	1334	1524	1716	1910	2106	2305	2506	32	64	96	129	161
1·274	73	3·2709	2914	3122	3332	3544	3759	3977	4197	4420	4646	36	72	108	144	180
1·292	74	3·4874	5105	5339	5576	5816	6059	6305	6554	6806	7062	41	81	122	163	204
1·309	75	3·7321	7583	7848	8118	8391	8667	8947	9232	9520	9812	46	93	139	186	232
1·326	76	4·0108	0408	0713	1022	1335	1653	1976	2303	2635	2972	Mean differences no longer sufficiently accurate.				
1·344	77	4·3315	3662	4015	4374	4737	5107	5483	5864	6252	6646					
1·361	78	4·7046	7453	7867	8288	8716	9152	9594	0045	0504	0970					
1·379	79	5·1446	1929	2422	2924	3435	3955	4486	5026	5578	6140					
1·396	80	5·6713	7297	7894	8502	9124	9758	0405	1066	1742	2432					
1·414	81	6·3138	3859	4596	5350	6122	6912	7720	8548	9395	0264					
1·431	82	7·1154	2066	3002	3962	4947	5958	6996	8062	9158	0285					
1·449	83	8·1443	2636	3863	5126	6427	7769	9152	0579	2052	3572					
1·466	84	9·514	9·677	9·845	10·02	10·20	10·39	10·58	10·78	10·99	11·20					
1·484	85	11·43	11·66	11·91	12·16	12·43	12·71	13·00	13·30	13·62	13·95					
1·501	86	14·30	14·67	15·06	15·46	15·89	16·35	16·83	17·34	17·89	18·46					
1·518	87	19·08	19·74	20·45	21·20	22·02	22·90	23·86	24·90	26·03	27·27					
1·536	88	28·64	30·14	31·82	33·69	35·80	38·19	40·92	44·07	47·74	52·08					
1·553	89	57·29	63·66	71·02	81·85	95·49	114·6	143·2	191·0	286·5	573·0					
1·571	90	∞														

Radian = 0017 0085 0052 0070 0087 0105 0122 0140 0157

Radian.	Degree.	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	Mean Differences.				
		0° 0	0° 1	0° 2	0° 3	0° 4	0° 5	0° 6	0° 7	0° 8	0° 9	1'	2'	3'	4'	5'
0000	0		573.0	286.5	191.0	148.2	114.6	95.49	81.85	71.62	63.66	Mean differences not sufficiently accurate.				
0475	1	57.29	52.08	47.74	44.07	40.92	38.19	35.80	33.69	31.82	30.14					
0849	2	23.64	27.27	26.03	24.90	23.86	22.90	22.02	21.20	20.45	19.74					
0524	3	19.08	18.46	17.89	17.34	16.83	16.35	15.89	15.46	15.06	14.67					
0694	4	14.80	18.95	13.62	13.80	13.00	12.71	12.43	12.16	11.91	11.66					
0873	5	11.43	11.20	10.99	10.78	10.58	10.39	10.20	10.02	9.845	9.677					
1047	6	9.5144	3572	2052	0579	9152	7769	6427	5126	3863	2636					
1222	7	8.1443	0285	9158	8062	6996	5958	4947	3962	3002	2066					
1396	8	7.1154	0264	9395	8548	7720	6912	6122	5350	4506	3859					
1571	9	6.3138	2432	1742	1066	0405	9758	9124	8502	7894	7297					
1745	10	5.6718	6140	5678	5026	4486	3955	3435	2924	2422	1929					
1920	11	5.1446	0970	0504	0045	9594	9152	8716	8288	7867	7453					
2094	12	4.7046	0646	0252	5864	5433	5107	4787	4374	4015	3662					
2269	13	4.3315	2972	2635	2303	1976	1653	1335	1022	0713	0408					
2443	14	4.0108	9812	9520	9232	8947	8667	8391	8118	7848	7583					
2618	15	3.7321	7062	6806	6554	6305	6050	5816	5576	5339	5105					
2793	16	3.4874	4646	4420	4197	3977	3759	3544	3332	3122	2914	36	72	106	144	180
2967	17	3.2709	2506	2305	2106	1910	1716	1524	1334	1146	0961	32	64	96	129	161
3142	18	3.0777	0595	0415	0237	0061	9887	9714	9544	9375	9208	29	58	87	116	148
3316	19	2.9042	8378	8716	8556	8397	8239	8083	7929	7776	7625	26	52	78	104	131
3491	20	2.7475	7326	7179	7034	6889	6746	6605	6464	6325	6187	24	57	71	95	119
3665	21	2.6051	5916	5782	5649	5517	5386	5257	5129	5002	4876	22	43	65	87	108
3840	22	2.4751	4627	4504	4383	4262	4142	4023	3906	3789	3673	20	40	60	79	99
4014	23	2.3559	3445	3332	3220	3109	2998	2889	2781	2673	2566	18	37	55	73	92
4189	24	2.2460	2355	2251	2148	2045	1943	1842	1742	1642	1543	17	34	51	68	85
4363	25	2.1445	1348	1251	1155	1060	0965	0872	0778	0686	0594	16	31	47	63	78
4538	26	2.0503	0413	0323	0233	0145	0057	0970	0883	0797	0711	15	29	44	58	73
4712	27	1.9626	9542	9458	9375	9292	9210	9128	9047	8967	8887	14	27	41	55	68
4887	28	1.8807	8728	8650	8572	8495	8418	8341	8265	8190	8115	13	26	38	51	64
5061	29	1.8040	7966	7893	7820	7747	7675	7603	7532	7461	7391	12	24	36	48	60
5236	30	1.7321	7251	7182	7113	7045	6977	6909	6842	6775	6709	11	23	34	45	56
5411	31	1.6643	6577	6512	6447	6383	6319	6255	6191	6128	6066	11	21	32	43	53
5585	32	1.6003	5941	5880	5818	5757	5697	5637	5577	5517	5458	10	20	30	40	50
5760	33	1.5399	5340	5282	5224	5166	5108	5051	4994	4938	4882	10	19	29	38	48
5934	34	1.4826	4770	4715	4659	4605	4550	4496	4442	4388	4335	9	18	27	36	45
6109	35	1.4281	4220	4176	4124	4071	4019	3968	3916	3865	3814	9	17	26	34	43
6283	36	1.3764	3713	3663	3613	3564	3514	3465	3416	3367	3319	8	16	25	33	41
6458	37	1.3270	3222	3175	3127	3079	3032	2985	2938	2892	2846	8	16	24	31	39
6632	38	1.2799	2753	2708	2662	2617	2572	2527	2482	2437	2393	8	15	23	30	38
6807	39	1.2349	2305	2261	2218	2174	2131	2088	2045	2002	1960	7	14	22	29	36
6981	40	1.1918	1875	1833	1792	1750	1708	1667	1626	1585	1544	7	14	21	18	34
7156	41	1.1504	1463	1423	1383	1343	1303	1263	1224	1184	1145	7	13	20	27	33
7330	42	1.1106	1067	1028	0990	0951	0913	0875	0837	0799	0761	6	13	19	25	32
7505	43	1.0724	0886	0849	0812	0775	0738	0701	0664	0628	0592	6	12	18	25	31
7679	44	1.0355	0319	0283	0247	0212	0176	0141	0105	0070	0035	6	12	18	24	30
7854	45	1.0000	0965	0930	0896	0861	0827	0793	0759	0725	0691	6	11	17	23	29

Radian = 0017 0055 0052 0070 0087 0105 0122 0140 0157

Radian.	Degree.											Mean Differences.				
		0°	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
.785	45	1.0000	.9965	.9930	.9896	.9861	.9827	.9793	.9759	.9725	.9691	6	11	17	23	29
.803	46	0.9957	.9923	.9890	.9856	.9823	.9790	.9757	.9724	.9691	.9658	6	11	17	22	28
.820	47	.9925	.9893	.9860	.9828	.9795	.9763	.9731	.9699	.9667	.9635	5	11	16	21	27
.838	48	.9904	.9872	.9841	.9810	.9778	.9747	.9716	.9685	.9654	.9623	5	10	16	21	26
.855	49	.9893	.9862	.9832	.9801	.9771	.9741	.9711	.9681	.9651	.9621	5	10	15	20	25
.873	50	.9891	.9861	.9832	.9802	.9773	.9743	.9714	.9685	.9656	.9627	5	10	15	20	24
.890	51	.9898	.9869	.9840	.9812	.9783	.9754	.9726	.9698	.9669	.9641	5	9	14	19	24
.908	52	.9813	.9785	.9757	.9729	.9701	.9673	.9646	.9618	.9590	.9563	5	9	14	18	23
.925	53	.9758	.9730	.9702	.9674	.9647	.9619	.9592	.9564	.9537	.9509	5	9	14	18	23
.942	54	.9726	.9698	.9671	.9643	.9616	.9588	.9561	.9534	.9507	.9479	4	9	13	18	22
.960	55	.9702	.9675	.9648	.9621	.9594	.9567	.9540	.9513	.9486	.9459	4	9	13	17	21
.977	56	.9745	.9718	.9691	.9664	.9637	.9610	.9583	.9556	.9529	.9502	4	8	13	17	21
.995	57	.9749	.9722	.9695	.9668	.9641	.9614	.9587	.9560	.9533	.9506	4	8	12	16	20
1.012	58	.9749	.9722	.9695	.9668	.9641	.9614	.9587	.9560	.9533	.9506	4	8	12	16	20
1.030	59	.9749	.9722	.9695	.9668	.9641	.9614	.9587	.9560	.9533	.9506	4	8	12	16	20
1.047	60	.9774	.9747	.9720	.9693	.9666	.9639	.9612	.9585	.9558	.9531	4	8	12	15	19
1.065	61	.9743	.9716	.9689	.9662	.9635	.9608	.9581	.9554	.9527	.9500	4	8	11	15	19
1.082	62	.9717	.9690	.9663	.9636	.9609	.9582	.9555	.9528	.9501	.9474	4	7	11	15	18
1.100	63	.9695	.9668	.9641	.9614	.9587	.9560	.9533	.9506	.9479	.9452	4	7	11	15	19
1.117	64	.9677	.9650	.9623	.9596	.9569	.9542	.9515	.9488	.9461	.9434	4	7	11	14	18
1.134	65	.9663	.9636	.9609	.9582	.9555	.9528	.9501	.9474	.9447	.9420	4	7	11	14	18
1.152	66	.9652	.9625	.9598	.9571	.9544	.9517	.9490	.9463	.9436	.9409	3	7	10	14	17
1.169	67	.9645	.9618	.9591	.9564	.9537	.9510	.9483	.9456	.9429	.9402	3	7	10	14	17
1.187	68	.9640	.9613	.9586	.9559	.9532	.9505	.9478	.9451	.9424	.9397	3	7	10	13	17
1.204	69	.9639	.9612	.9585	.9558	.9531	.9504	.9477	.9450	.9423	.9396	3	7	10	13	17
1.222	70	.9640	.9613	.9586	.9559	.9532	.9505	.9478	.9451	.9424	.9397	3	7	10	13	16
1.239	71	.9643	.9616	.9589	.9562	.9535	.9508	.9481	.9454	.9427	.9400	3	6	10	13	16
1.257	72	.9649	.9622	.9595	.9568	.9541	.9514	.9487	.9460	.9433	.9406	3	6	10	13	16
1.274	73	.9657	.9630	.9603	.9576	.9549	.9522	.9495	.9468	.9441	.9414	3	6	9	13	16
1.292	74	.9667	.9640	.9613	.9586	.9559	.9532	.9505	.9478	.9451	.9424	3	6	9	13	16
1.309	75	.9679	.9652	.9625	.9598	.9571	.9544	.9517	.9490	.9463	.9436	3	6	9	12	16
1.326	76	.9693	.9666	.9639	.9612	.9585	.9558	.9531	.9504	.9477	.9450	3	6	9	12	15
1.344	77	.9709	.9682	.9655	.9628	.9601	.9574	.9547	.9520	.9493	.9466	3	6	9	12	15
1.361	78	.9726	.9699	.9672	.9645	.9618	.9591	.9564	.9537	.9510	.9483	3	6	9	12	15
1.379	79	.9744	.9717	.9690	.9663	.9636	.9609	.9582	.9555	.9528	.9501	3	6	9	12	15
1.396	80	.9763	.9736	.9709	.9682	.9655	.9628	.9601	.9574	.9547	.9520	3	6	9	12	15
1.414	81	.9784	.9757	.9730	.9703	.9676	.9649	.9622	.9595	.9568	.9541	3	6	9	12	15
1.431	82	.9805	.9778	.9751	.9724	.9697	.9670	.9643	.9616	.9589	.9562	3	6	9	12	15
1.449	83	.9828	.9801	.9774	.9747	.9720	.9693	.9666	.9639	.9612	.9585	3	6	9	12	15
1.466	84	.9851	.9824	.9797	.9770	.9743	.9716	.9689	.9662	.9635	.9608	3	6	9	12	15
1.484	85	.9875	.9848	.9821	.9794	.9767	.9740	.9713	.9686	.9659	.9632	3	6	9	12	15
1.501	86	.9900	.9873	.9846	.9819	.9792	.9765	.9738	.9711	.9684	.9657	3	6	9	12	15
1.518	87	.9924	.9897	.9870	.9843	.9816	.9789	.9762	.9735	.9708	.9681	3	6	9	12	15
1.536	88	.9949	.9922	.9895	.9868	.9841	.9814	.9787	.9760	.9733	.9706	3	6	9	12	15
1.553	89	.9975	.9948	.9921	.9894	.9867	.9840	.9813	.9786	.9759	.9732	3	6	9	12	15
1.571	90	0										3	6	9	12	15

Radian = .0017 .0035 .0053 .0070 .0087 .0105 .0122 .0140 .0157

Radian.	Degree.	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	Mean Differences.				
		0°0	0°1	0°2	0°3	0°4	0°5	0°6	0°7	0°8	0°9	1'	2'	3'	4'	5'
0000	0	1.0000	0000	0000	0000	0000	0000	0001	0001	0001	0001	0	0	0	0	0
0175	1	0002	0002	0002	0003	0003	0003	0004	0004	0005	0006	0	0	0	0	0
0349	2	0008	0007	0007	0008	0009	0010	0010	0011	0012	0013	0	0	0	1	1
0524	3	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0	0	1	1	1
0698	4	0024	0026	0027	0028	0030	0031	0032	0034	0035	0037	0	0	1	1	1
0873	5	0038	0040	0041	0043	0045	0046	0048	0050	0051	0053	0	1	1	1	1
1047	6	0055	0057	0059	0061	0063	0065	0067	0069	0071	0073	0	1	1	1	2
1222	7	0076	0077	0079	0082	0084	0086	0088	0091	0093	0096	0	1	1	2	2
1396	8	0098	0101	0103	0106	0108	0111	0114	0116	0119	0122	0	1	1	2	2
1571	9	0125	0127	0130	0133	0136	0139	0142	0145	0148	0151	0	1	1	2	2
1745	10	0154	0157	0161	0164	0167	0170	0174	0177	0180	0184	1	1	2	2	3
1920	11	0167	0191	0194	0198	0201	0205	0209	0212	0216	0220	1	1	2	2	3
2094	12	0223	0227	0231	0235	0239	0243	0247	0251	0255	0259	1	1	2	3	3
2269	13	0263	0267	0271	0276	0280	0284	0288	0293	0297	0302	1	1	2	3	4
2443	14	0306	0311	0315	0320	0324	0329	0334	0338	0343	0348	1	2	2	3	4
2618	15	0353	0358	0363	0367	0372	0377	0382	0388	0393	0398	1	2	3	3	4
2793	16	0403	0408	0413	0419	0424	0429	0435	0440	0446	0451	1	2	3	4	4
2967	17	0457	0463	0468	0474	0480	0485	0491	0497	0503	0509	1	2	3	4	5
3142	18	0516	0521	0527	0533	0539	0545	0551	0557	0564	0570	1	2	3	4	5
3316	19	0576	0583	0589	0595	0602	0608	0615	0622	0628	0635	1	2	3	4	6
3491	20	0642	0649	0655	0662	0669	0676	0683	0690	0697	0704	1	2	4	5	6
3665	21	0711	0719	0726	0733	0740	0748	0755	0763	0770	0778	1	2	4	5	6
3840	22	0725	0733	0801	0808	0816	0824	0832	0840	0848	0856	1	3	4	5	7
4014	23	0864	0872	0880	0888	0896	0904	0913	0921	0929	0938	1	3	4	6	7
4189	24	0946	0955	0963	0972	0981	0989	0998	1007	1016	1025	1	3	4	6	7
4363	25	1034	1043	1052	1061	1070	1079	1089	1098	1107	1117	2	3	5	6	7
4538	26	1126	1136	1145	1155	1164	1174	1184	1194	1203	1213	2	3	5	6	8
4712	27	1223	1233	1243	1253	1264	1274	1284	1294	1305	1315	2	3	5	7	9
4887	28	1326	1336	1347	1357	1368	1379	1390	1401	1412	1423	2	4	5	7	9
5061	29	1434	1445	1456	1467	1478	1490	1501	1512	1524	1535	2	4	6	7	9
5236	30	1547	1559	1570	1582	1594	1606	1618	1630	1642	1654	2	4	6	8	10
5411	31	1668	1679	1691	1703	1716	1728	1741	1753	1766	1779	2	4	6	8	10
5585	32	1792	1805	1818	1831	1844	1857	1870	1883	1897	1910	2	4	7	9	11
5760	33	1924	1937	1951	1964	1978	1992	2006	2020	2034	2048	2	5	7	9	12
5934	34	2062	2076	2091	2105	2120	2134	2149	2163	2178	2193	2	5	7	10	12
6109	35	2208	2223	2238	2253	2268	2283	2299	2314	2329	2345	3	5	8	10	13
6283	36	2361	2376	2392	2408	2424	2440	2456	2472	2489	2505	3	5	8	11	13
6458	37	2521	2538	2554	2571	2588	2605	2622	2639	2656	2673	3	6	9	12	14
6632	38	2690	2708	2725	2742	2760	2778	2796	2813	2831	2849	3	6	9	12	15
6807	39	2868	2886	2904	2923	2941	2960	2978	2997	3016	3035	3	6	10	13	15
6981	40	3054	3073	3093	3112	3131	3151	3171	3190	3210	3230	3	7	10	13	16
7156	41	3250	3270	3291	3311	3331	3352	3373	3393	3414	3435	4	7	10	14	17
7330	42	3456	3478	3499	3520	3542	3563	3585	3607	3629	3651	4	7	11	14	18
7505	43	3673	3696	3718	3741	3763	3786	3809	3832	3855	3878	4	8	11	15	19
7679	44	3902	3925	3949	3972	3996	4020	4044	4069	4093	4118	4	8	12	16	20
7854	45	4142	4167	4192	4217	4242	4267	4293	4318	4344	4370	4	8	13	17	21

Radian = 0017 0085 0052 0070 0087 0106 0122 0140 0157

Radian.	Degree.											Mean Differences.				
		0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
.785	45	1.4142	4167	4192	4217	4242	4267	4293	4318	4344	4370	4	8	13	17	21
.800	46	4396	4422	4448	4474	4501	4527	4554	4581	4608	4635	4	9	13	18	22
.820	47	4668	4690	4718	4746	4774	4802	4830	4859	4887	4916	5	10	14	19	23
.838	48	4945	4974	5003	5032	5062	5092	5121	5151	5182	5212	5	10	15	20	25
.855	49	5243	5273	5304	5335	5366	5398	5429	5461	5493	5525	5	10	16	21	26
.873	50	5557	5590	5622	5655	5688	5721	5755	5788	5822	5856	6	11	17	22	28
.890	51	5890	5925	5959	5994	6029	6064	6099	6135	6171	6207	6	12	18	24	30
.908	52	6243	6279	6316	6353	6390	6427	6464	6502	6540	6578	6	12	19	25	31
.925	53	6616	6655	6694	6733	6772	6812	6852	6892	6932	6972	7	13	20	26	33
.942	54	7018	7054	7095	7137	7179	7221	7263	7305	7348	7391	7	14	21	28	35
.960	55	7434	7478	7522	7566	7610	7655	7700	7745	7791	7837	7	15	22	30	37
.977	56	7883	7929	7976	8023	8070	8118	8166	8214	8263	8312	8	16	24	32	40
.995	57	8361	8410	8459	8508	8557	8606	8655	8704	8754	8803	8	17	26	34	43
1.012	58	8871	8924	8977	9031	9084	9139	9194	9249	9304	9360	9	18	27	36	46
1.030	59	9418	9473	9530	9587	9645	9703	9762	9821	9880	9940	10	19	29	39	49
1.047	60	2.0000	0061	0122	0183	0245	0308	0371	0434	0498	0562	10	21	31	42	52
1.065	61	0627	0692	0757	0824	0890	0957	1025	1093	1162	1231	11	22	33	45	56
1.082	62	1301	1371	1441	1513	1584	1657	1730	1803	1877	1952	12	24	37	48	61
1.100	63	2027	2108	2179	2256	2333	2412	2490	2570	2650	2730	13	26	39	52	66
1.117	64	2812	2894	2976	3060	3144	3228	3314	3400	3488	3574	14	28	43	57	71
1.134	65	3662	3751	3841	3931	4022	4114	4207	4300	4395	4490	15	31	46	62	77
1.152	66	4586	4683	4780	4879	4978	5078	5180	5282	5384	5488	17	34	50	68	84
1.169	67	5593	5699	5805	5913	6022	6131	6242	6354	6466	6580	18	37	55	74	91
1.187	68	6695	6811	6927	7046	7165	7285	7407	7529	7653	7778	20	40	61	81	101
1.204	69	7904	8032	8161	8291	8422	8555	8688	8824	8960	9099	22	44	67	89	111
1.222	70	9238	9379	9521	9665	9811	9957	0106	0256	0407	0561	25	49	74	98	123
1.239	71	3.0716	0872	1080	1190	1352	1515	1681	1843	2017	2188	27	55	82	106	137
1.257	72	2361	2535	2712	2891	3072	3255	3440	3628	3817	4009	31	61	92	122	153
1.274	73	4203	4399	4598	4799	5003	5209	5418	5629	5843	6060	35	69	104	138	173
1.292	74	6250	6502	6757	6955	7186	7420	7657	7897	8140	8387	39	78	118	157	196
1.309	75	8637	8890	9147	9408	9672	9939	0211	0486	0765	1048	45	90	134	180	224
1.326	76	4.1386	1627	1923	2223	2527	2837	3150	3466	3792	4121	Mean differences no longer sufficiently accurate.				
1.344	77	4454	4793	5137	5486	5841	6202	6569	6942	7321	7706					
1.361	78	8097	8496	8901	9313	9732	0159	0593	1034	1484	1942					
1.379	79	5.2408	2883	3367	3860	4362	4874	5396	5928	6470	7023					
1.396	80	7583	8164	8751	9351	9963	0580	1227	1880	2546	3228					
1.414	81	6.3925	4637	5366	6111	6874	7655	8454	9273	0112	0972	Mean differences no longer sufficiently accurate.				
1.431	82	7.1853	2757	3684	4635	5611	6613	7642	8700	9787	0905					
1.449	83	8.2055	3238	4457	5711	7004	8337	9711	1129	2593	4105					
1.466	84	9.5868	9.728	9.895	10.07	10.25	10.43	10.63	10.83	11.03	11.25					
1.484	85	11.47	11.71	11.95	12.20	12.47	12.75	13.03	13.34	13.65	13.99					
1.501	86	14.34	14.70	15.09	15.50	15.93	16.38	16.86	17.37	17.91	18.49	Mean differences no longer sufficiently accurate.				
1.518	87	19.11	19.77	20.47	21.23	22.04	22.93	23.88	24.92	26.05	27.29					
1.536	88	28.65	30.16	31.84	33.71	35.81	38.20	40.93	44.08	47.75	52.09					
1.553	89	57.30	63.66	71.62	81.85	95.49	114.6	143.2	191.0	236.5	573.0					
1.571	90	∞														

Radian=.0017 0085 0052 0070 0087 0105 0122 0140 0157

Radian.	Degree.	0'	6'	12'	18'	24'	30'	36'	42'	48'	54'	Mean Differences.				
		0° 0	0° 1	0° 2	0° 3	0° 4	0° 5	0° 6	0° 7	0° 8	0° 9	1'	2'	3'	4'	5'
00000	0		573.0	286.5	191.0	143.2	114.6	95.49	81.85	71.62	63.66	Mean differences not sufficiently accurate.				
0175	1	57.30	52.09	47.75	44.08	40.93	38.20	35.81	33.71	31.84	30.16					
0349	2	28.65	27.29	26.05	24.92	23.88	22.93	22.04	21.23	20.47	19.77					
0524	3	19.11	18.49	17.91	17.37	16.86	16.38	15.93	15.50	15.09	14.70					
0698	4	14.34	13.99	13.65	13.34	13.03	12.75	12.47	12.20	11.95	11.71					
0873	5	11.47	11.25	11.03	10.83	10.63	10.43	10.25	10.07	9.895	9.728					
1047	6	9.5668	4105	2593	1129	9711	8337	7004	5711	4457	3238					
1222	7	8.2055	0905	9787	8700	7642	6613	5611	4635	3684	2757					
1396	8	7.1853	0972	0112	9273	8454	7655	6874	6111	5368	4637					
1571	9	6.8925	3228	2546	1880	1227	0589	9953	9351	8751	8164					
1754	10	5.7588	7023	6470	5928	5396	4847	4362	3860	3367	2883					
1920	11	2408	1942	1484	1034	6593	0159	9732	9313	8901	8496					
2094	12	4.8097	7706	7321	6942	6569	6202	5841	5486	5137	4793					
2269	13	4454	4121	3792	3469	3150	2837	2527	2223	1923	1627					
2443	14	1336	1043	0765	0486	0211	9939	9672	9403	9147	8890					
2618	15	3.8637	8337	8140	7897	7657	7420	7186	6955	6727	6502					
2793	16	6280	0080	5348	5029	5418	5200	5003	4799	4598	4399	35	69	104	138	173
2967	17	4203	4009	3817	3628	3440	3255	3072	2891	2712	2535	31	61	92	122	153
3142	18	2361	2188	2017	1848	1681	1515	1352	1190	1030	0872	27	55	82	106	137
3316	19	0716	0561	0407	0256	0106	9957	9811	9665	9521	9379	25	49	74	98	123
3491	20	0.0238	9099	8900	8824	8688	8555	8422	8291	8161	8032	22	44	67	89	111
3665	21	7904	7778	7653	7529	7407	7285	7165	7046	6927	6811	20	40	61	81	101
3840	22	6695	6580	6466	6354	6242	6131	6022	5913	5805	5699	18	37	55	74	91
4014	23	5593	5488	5384	5282	5180	5078	4978	4879	4780	4683	17	34	50	68	84
4189	24	4586	4490	4395	4300	4207	4114	4022	3931	3841	3751	15	31	46	62	77
4363	25	3662	3574	3486	3400	3314	3228	3144	3060	2976	2894	14	28	43	57	71
4538	26	2812	2730	2650	2570	2490	2412	2333	2256	2179	2103	13	26	39	52	66
4712	27	2027	1952	1877	1803	1730	1657	1584	1513	1441	1371	12	24	37	48	61
4887	28	1301	1231	1162	1093	1025	9957	9590	9224	8859	8493	11	22	33	45	56
5061	29	0627	0562	0498	0434	0371	0308	0245	0183	0122	0061	10	21	31	42	52
5236	30	2.0000	9940	9880	9821	9762	9703	9645	9587	9530	9473	10	19	29	39	49
5411	31	1.9416	9880	9804	9749	9694	9639	9584	9531	9477	9424	9	18	27	36	46
5586	32	8371	8318	8266	8214	8163	8112	8061	8010	7960	7910	8	17	26	34	43
5760	33	8861	8812	8763	8714	8665	8616	8567	8518	8469	8420	8	16	24	32	40
5934	34	7883	7837	7791	7745	7700	7655	7610	7566	7522	7478	7	15	22	30	37
6109	35	7434	7391	7348	7305	7263	7221	7179	7137	7095	7054	7	14	21	28	35
6283	36	7013	6973	6932	6892	6852	6812	6772	6733	6694	6655	7	13	20	26	33
6458	37	6616	6578	6540	6502	6464	6427	6390	6353	6316	6279	6	12	19	25	31
6632	38	6243	6207	6171	6135	6099	6064	6029	5994	5959	5925	6	12	18	24	30
6807	39	5890	5856	5822	5788	5755	5721	5688	5655	5622	5590	6	11	17	22	28
6981	40	5557	5525	5493	5461	5429	5398	5366	5335	5304	5273	5	10	16	21	26
7156	41	5243	5212	5182	5151	5121	5092	5062	5032	5003	4974	5	10	15	20	25
7330	42	4945	4916	4887	4859	4830	4802	4774	4746	4718	4690	5	10	14	19	23
7505	43	4663	4635	4606	4581	4554	4527	4501	4474	4448	4422	4	9	13	18	22
7679	44	4396	4370	4344	4318	4293	4267	4242	4217	4192	4167	4	8	13	17	21
7854	45	4142	4118	4093	4069	4044	4020	3996	3972	3949	3925	4	8	12	16	20

Radian=0017 0085 0052 0070 0087 0105 0122 0140 0157

Radian.	Degree.											Mean Differences.				
		0°	6'	12'	18'	24'	30'	36'	42'	48'	54'	1'	2'	3'	4'	5'
785	45	1.4142	4118	4093	4069	4044	4020	3996	3972	3949	3925	4	8	12	16	20
803	46	3992	3878	3855	3832	3809	3786	3763	3741	3718	3696	4	8	11	15	19
820	47	3673	3651	3629	3607	3585	3563	3542	3520	3499	3478	4	7	11	14	18
838	48	3458	3435	3414	3393	3373	3352	3331	3311	3291	3270	4	7	10	14	17
855	49	3250	3230	3210	3190	3171	3151	3131	3112	3093	3073	3	7	10	13	16
873	50	3054	3036	3016	2997	2978	2960	2941	2923	2904	2886	3	6	10	13	15
890	51	2868	2849	2831	2813	2796	2778	2760	2742	2725	2708	3	6	9	12	15
908	52	2690	2673	2656	2639	2622	2605	2588	2571	2554	2538	3	6	9	12	14
925	53	2521	2505	2489	2472	2456	2440	2424	2408	2392	2376	3	5	8	11	13
942	54	2361	2345	2329	2314	2299	2283	2268	2253	2238	2223	3	5	8	10	13
960	55	2208	2193	2178	2163	2149	2134	2120	2105	2091	2076	2	5	7	10	12
977	56	2062	2048	2034	2020	2006	1992	1978	1964	1951	1937	2	5	7	9	12
995	57	1924	1910	1897	1883	1870	1857	1844	1831	1818	1805	2	4	7	9	11
1012	58	1792	1779	1766	1753	1741	1728	1716	1703	1691	1679	2	4	6	8	10
1030	59	1666	1654	1642	1630	1618	1606	1594	1582	1570	1559	2	4	6	8	10
1047	60	1547	1536	1524	1512	1501	1490	1478	1467	1456	1445	2	4	6	7	9
1065	61	1434	1423	1412	1401	1390	1379	1368	1357	1347	1336	2	4	5	7	9
1082	62	1326	1315	1305	1294	1284	1274	1264	1253	1243	1233	2	3	5	7	9
1100	63	1223	1213	1203	1194	1184	1174	1164	1155	1145	1136	2	3	5	6	8
1117	64	1126	1117	1107	1098	1089	1079	1070	1061	1052	1043	2	3	5	6	8
1134	65	1034	1025	1016	1007	998	989	981	972	963	955	1	3	4	6	7
1152	66	0946	0938	0929	0921	0913	0904	0896	0888	0880	0872	1	3	4	6	7
1169	67	0894	0886	0878	0870	0862	0854	0846	0838	0830	0822	1	3	4	5	6
1187	68	0785	0778	0770	0763	0755	0748	0740	0733	0726	0719	1	2	4	5	6
1204	69	0711	0704	0697	0690	0683	0676	0669	0662	0655	0649	1	2	4	5	6
1222	70	0642	0635	0628	0622	0615	0608	0602	0595	0589	0583	1	2	3	4	5
1239	71	0576	0570	0564	0557	0551	0545	0539	0533	0527	0521	1	2	3	4	5
1257	72	0515	0509	0503	0497	0491	0485	0480	0474	0468	0463	1	2	3	4	5
1274	73	0467	0461	0456	0450	0445	0440	0435	0429	0424	0419	1	2	3	4	4
1292	74	0403	0398	0393	0388	0383	0377	0372	0367	0363	0358	1	2	3	3	4
1309	75	0353	0348	0343	0338	0334	0329	0324	0320	0315	0311	1	2	2	3	4
1326	76	0303	0302	0297	0293	0288	0284	0280	0276	0271	0267	1	1	2	3	4
1344	77	0263	0259	0255	0251	0247	0243	0239	0235	0231	0227	1	1	2	3	3
1361	78	0223	0220	0216	0212	0209	0205	0201	0198	0194	0191	1	1	2	2	3
1379	79	0187	0184	0180	0177	0174	0170	0167	0164	0161	0157	1	1	2	2	3
1396	80	0154	0151	0148	0145	0142	0139	0136	0133	0130	0127	0	1	1	2	2
1414	81	0125	0122	0119	0116	0114	0111	0108	0106	0103	0101	0	1	1	2	2
1431	82	0098	0096	0093	0091	0089	0086	0084	0082	0079	0077	0	1	1	2	2
1449	83	0075	0073	0071	0069	0067	0065	0063	0061	0059	0057	0	1	1	1	2
1466	84	0055	0053	0051	0050	0048	0046	0045	0043	0041	0040	0	1	1	1	1
1484	85	0038	0037	0035	0034	0032	0031	0030	0028	0027	0026	0	0	1	1	1
1501	86	0024	0023	0022	0021	0020	0019	0018	0017	0016	0015	0	0	1	1	1
1518	87	0014	0013	0012	0011	0010	0010	0009	0008	0007	0007	0	0	0	1	1
1536	88	0006	0006	0005	0004	0004	0003	0003	0003	0002	0002	0	0	0	0	0
1553	89	0002	0001	0001	0001	0001	0000	0000	0000	0000	0000	0	0	0	0	0
1571	90	1.0000														

Radian = 0017 0035 0052 0070 0087 0105 0122 0140 0157

°	0'	20'	40'	°	0'	20'	40'	°	0'	20'	40'
0	0.0000	0.0058	0.0116	60	1.0000	1.0050	1.0101	120	1.7321	1.7350	1.7378
1	0.0175	0.0233	0.0291	61	1.0151	1.0201	1.0251	121	1.7407	1.7436	1.7464
2	0.0349	0.0407	0.0465	62	1.0301	1.0351	1.0400	122	1.7492	1.7521	1.7549
3	0.0524	0.0582	0.0640	63	1.0450	1.0500	1.0549	123	1.7576	1.7604	1.7632
4	0.0698	0.0756	0.0814	64	1.0598	1.0648	1.0697	124	1.7659	1.7686	1.7713
5	0.0872	0.0931	0.0989	65	1.0746	1.0795	1.0844	125	1.7740	1.7767	1.7794
6	0.1047	0.1105	0.1163	66	1.0893	1.0942	1.0990	126	1.7820	1.7846	1.7873
7	0.1221	0.1279	0.1337	67	1.1039	1.1087	1.1136	127	1.7899	1.7925	1.7950
8	0.1395	0.1453	0.1511	68	1.1184	1.1232	1.1280	128	1.7976	1.8001	1.8027
9	0.1569	0.1627	0.1685	69	1.1328	1.1376	1.1424	129	1.8052	1.8077	1.8101
10	0.1743	0.1801	0.1859	70	1.1472	1.1519	1.1567	130	1.8126	1.8151	1.8175
11	0.1917	0.1975	0.2033	71	1.1614	1.1661	1.1709	131	1.8199	1.8223	1.8247
12	0.2091	0.2148	0.2206	72	1.1756	1.1803	1.1850	132	1.8271	1.8294	1.8318
13	0.2264	0.2322	0.2380	73	1.1896	1.1943	1.1990	133	1.8341	1.8364	1.8387
14	0.2437	0.2495	0.2553	74	1.2036	1.2083	1.2129	134	1.8410	1.8433	1.8455
15	0.2611	0.2668	0.2726	75	1.2175	1.2221	1.2267	135	1.8478	1.8500	1.8522
16	0.2783	0.2841	0.2899	76	1.2313	1.2359	1.2405	136	1.8544	1.8565	1.8587
17	0.2956	0.3014	0.3071	77	1.2450	1.2496	1.2541	137	1.8608	1.8630	1.8651
18	0.3129	0.3186	0.3244	78	1.2586	1.2632	1.2677	138	1.8672	1.8692	1.8713
19	0.3301	0.3358	0.3416	79	1.2722	1.2766	1.2811	139	1.8733	1.8754	1.8774
20	0.3473	0.3530	0.3587	80	1.2856	1.2900	1.2945	140	1.8794	1.8814	1.8833
21	0.3645	0.3702	0.3759	81	1.2989	1.3033	1.3077	141	1.8853	1.8872	1.8891
22	0.3816	0.3873	0.3930	82	1.3121	1.3165	1.3209	142	1.8910	1.8929	1.8948
23	0.3987	0.4044	0.4101	83	1.3252	1.3296	1.3339	143	1.8966	1.8985	1.9003
24	0.4158	0.4215	0.4272	84	1.3383	1.3426	1.3469	144	1.9021	1.9039	1.9057
25	0.4329	0.4386	0.4442	85	1.3512	1.3555	1.3597	145	1.9074	1.9092	1.9109
26	0.4499	0.4556	0.4612	86	1.3640	1.3682	1.3725	146	1.9126	1.9143	1.9160
27	0.4669	0.4725	0.4782	87	1.3767	1.3809	1.3851	147	1.9176	1.9193	1.9209
28	0.4838	0.4895	0.4951	88	1.3893	1.3935	1.3977	148	1.9225	1.9241	1.9257
29	0.5008	0.5064	0.5120	89	1.4018	1.4060	1.4101	149	1.9273	1.9288	1.9303
30	0.5176	0.5233	0.5289	90	1.4142	1.4183	1.4224	150	1.9319	1.9333	1.9348
31	0.5345	0.5401	0.5457	91	1.4265	1.4306	1.4346	151	1.9363	1.9377	1.9392
32	0.5513	0.5569	0.5625	92	1.4387	1.4427	1.4467	152	1.9406	1.9420	1.9434
33	0.5680	0.5736	0.5792	93	1.4507	1.4547	1.4587	153	1.9447	1.9461	1.9474
34	0.5847	0.5903	0.5959	94	1.4627	1.4667	1.4706	154	1.9487	1.9500	1.9513
35	0.6014	0.6070	0.6125	95	1.4746	1.4785	1.4824	155	1.9526	1.9538	1.9551
36	0.6180	0.6236	0.6291	96	1.4863	1.4902	1.4941	156	1.9563	1.9575	1.9587
37	0.6346	0.6401	0.6456	97	1.4979	1.5018	1.5056	157	1.9598	1.9610	1.9621
38	0.6511	0.6566	0.6621	98	1.5094	1.5132	1.5170	158	1.9633	1.9644	1.9654
39	0.6676	0.6731	0.6786	99	1.5208	1.5246	1.5283	159	1.9665	1.9676	1.9686
40	0.6840	0.6895	0.6950	100	1.5321	1.5358	1.5395	160	1.9696	1.9706	1.9716
41	0.7004	0.7059	0.7113	101	1.5432	1.5469	1.5506	161	1.9726	1.9735	1.9745
42	0.7167	0.7222	0.7276	102	1.5543	1.5579	1.5616	162	1.9754	1.9763	1.9772
43	0.7330	0.7384	0.7438	103	1.5632	1.5668	1.5704	163	1.9780	1.9789	1.9797
44	0.7492	0.7546	0.7600	104	1.5760	1.5796	1.5832	164	1.9806	1.9813	1.9821
45	0.7654	0.7707	0.7761	105	1.5867	1.5902	1.5938	165	1.9829	1.9836	1.9844
46	0.7815	0.7868	0.7922	106	1.5973	1.6008	1.6042	166	1.9851	1.9858	1.9865
47	0.7975	0.8028	0.8082	107	1.6077	1.6112	1.6146	167	1.9871	1.9878	1.9884
48	0.8135	0.8188	0.8241	108	1.6180	1.6214	1.6248	168	1.9890	1.9896	1.9902
49	0.8294	0.8347	0.8400	109	1.6282	1.6316	1.6350	169	1.9908	1.9913	1.9919
50	0.8452	0.8505	0.8558	110	1.6383	1.6416	1.6450	170	1.9924	1.9929	1.9934
51	0.8610	0.8663	0.8715	111	1.6483	1.6515	1.6548	171	1.9938	1.9943	1.9947
52	0.8767	0.8820	0.8872	112	1.6581	1.6613	1.6646	172	1.9951	1.9955	1.9959
53	0.8924	0.8976	0.9028	113	1.6678	1.6710	1.6742	173	1.9963	1.9966	1.9969
54	0.9080	0.9132	0.9183	114	1.6773	1.6805	1.6836	174	1.9973	1.9976	1.9978
55	0.9235	0.9287	0.9338	115	1.6868	1.6899	1.6930	175	1.9981	1.9983	1.9986
56	0.9389	0.9441	0.9492	116	1.6961	1.6992	1.7022	176	1.9988	1.9990	1.9992
57	0.9543	0.9594	0.9645	117	1.7053	1.7083	1.7113	177	1.9993	1.9995	1.9996
58	0.9696	0.9747	0.9798	118	1.7143	1.7173	1.7203	178	1.9997	1.9998	1.9999
59	0.9848	0.9899	0.9950	119	1.7233	1.7262	1.7291	179	1.9999	2.0000	2.0000
60	1.0000	1.0050	1.0101	120	1.7321	1.7350	1.7378	180	2.0000	2.0000	2.0000

Degree.	Radian.	Sine.	Tangent.	Cosine.	Logarithm of		
					Sine.	Tangent.	Cosine.
5.73	.10	.0998	.1003	.9950	2.9993	1.0015	1.9978
6.30	.11	.1098	.1104	.9940	1.0405	.0431	.9974
6.88	.12	.1197	.1206	.9928	.0781	.0813	.9969
7.45	.13	.1296	.1307	.9916	.1127	.1164	.9963
8.02	.14	.1395	.1409	.9902	.1447	.1490	.9957
8.59	.15	.1494	.1511	.9888	.1745	.1794	.9951
9.17	.16	.1593	.1614	.9872	.2023	.2078	.9944
9.74	.17	.1692	.1717	.9856	.2284	.2347	.9937
10.31	.18	.1790	.1820	.9839	.2529	.2600	.9929
10.89	.19	.1889	.1923	.9820	.2761	.2840	.9921
11.46	.20	.1987	.2027	.9801	.2981	.3069	.9913
12.03	.21	.2085	.2131	.9780	.3190	.3287	.9904
12.61	.22	.2182	.2236	.9759	.3389	.3495	.9894
13.18	.23	.2280	.2341	.9737	.3579	.3695	.9884
13.75	.24	.2377	.2447	.9713	.3760	.3887	.9874
14.32	.25	.2474	.2553	.9689	.3934	.4071	.9863
14.90	.26	.2571	.2660	.9664	.4101	.4249	.9852
15.47	.27	.2667	.2768	.9638	.4261	.4421	.9840
16.04	.28	.2764	.2876	.9611	.4415	.4587	.9827
16.62	.29	.2859	.2984	.9583	.4563	.4748	.9815
17.19	.30	.2955	.3093	.9553	.4706	.4904	.9802
17.76	.31	.3051	.3203	.9523	.4844	.5056	.9788
18.33	.32	.3146	.3314	.9492	.4977	.5203	.9774
18.91	.33	.3240	.3425	.9460	.5106	.5347	.9759
19.48	.34	.3335	.3537	.9428	.5231	.5487	.9744
20.05	.35	.3429	.3650	.9394	.5352	.5623	.9728
20.63	.36	.3523	.3764	.9359	.5469	.5757	.9712
21.20	.37	.3616	.3879	.9323	.5582	.5887	.9696
21.77	.38	.3709	.3994	.9287	.5693	.6014	.9679
22.34	.39	.3802	.4111	.9249	.5800	.6139	.9661
22.92	.40	.3894	.4228	.9211	.5904	.6261	.9643
23.49	.41	.3986	.4346	.9171	.6005	.6381	.9624
24.06	.42	.4078	.4466	.9131	.6104	.6499	.9605
24.64	.43	.4169	.4586	.9090	.6200	.6615	.9586
25.21	.44	.4259	.4708	.9048	.6293	.6728	.9565
25.78	.45	.4350	.4831	.9005	.6385	.6840	.9545
26.36	.46	.4439	.4954	.8961	.6473	.6950	.9523
26.93	.47	.4529	.5080	.8916	.6560	.7058	.9502
27.50	.48	.4618	.5206	.8870	.6644	.7165	.9479
28.07	.49	.4706	.5334	.8823	.6727	.7270	.9456
28.65	.50	.4794	.5463	.8776	.6807	.7374	.9433
29.22	.51	.4882	.5594	.8727	.6886	.7477	.9409
29.79	.52	.4969	.5726	.8678	.6962	.7578	.9384
30.37	.53	.5055	.5859	.8628	.7037	.7678	.9359
30.94	.54	.5141	.5994	.8577	.7111	.7777	.9333
31.51	.55	.5227	.6131	.8525	.7182	.7875	.9307
32.09	.56	.5312	.6269	.8473	.7253	.7972	.9280
32.66	.57	.5396	.6410	.8419	.7321	.8068	.9253
33.23	.58	.5480	.6552	.8365	.7388	.8164	.9224
33.80	.59	.5564	.6696	.8309	.7454	.8258	.9196
34.37	.60	.5646	.6841	.8253	.7518	.8351	.9166

Degree.	Radian.	Sine.	Tangent.	Cosine.	Logarithms of		
					Sine.	Tangent.	Cosine.
34°38	·60	·5646	0·6841	·8253	1·7513	1·8351	1·9166
34°45	·61	·5729	0·6989	·8196	"7581	"8444	"9136
35°52	·62	·5810	0·7139	·8139	"7642	"8536	"9106
36°10	·63	·5891	0·7291	·8080	"7702	"8628	"9074
36°67	·64	·5972	0·7445	·8021	"7761	"8719	"9042
37°24	·65	·6052	0·7602	·7961	"7819	"8809	"9010
37°82	·66	·6131	0·7761	·7900	"7875	"8899	"8976
38°39	·67	·6210	0·7923	·7838	"7931	"8989	"8942
38°96	·68	·6288	0·8087	·7776	"7985	"9078	"8907
39°53	·69	·6365	0·8253	·7712	"8038	"9166	"8872
40°11	·70	·6442	0·8423	·7648	"8090	"9255	"8836
40°68	·71	·6518	0·8595	·7584	"8141	"9343	"8799
41°25	·72	·6594	0·8771	·7518	"8191	"9430	"8761
41°83	·73	·6669	0·8949	·7452	"8240	"9513	"8723
42°40	·74	·6743	0·9131	·7385	"8288	"9605	"8683
42°97	·75	·6816	0·9316	·7317	"8336	"9692	"8643
43°54	·76	·6889	0·9505	·7248	"8382	"9779	"8602
44°12	·77	·6961	0·9697	·7179	"8427	"9866	"8561
44°69	·78	·7033	0·9893	·7109	"8471	"9953	"8518
45°26	·79	·7104	1·0092	·7038	"8515	0·0040	"8475
45°84	·80	·7174	1·0296	·6967	"8557	0·0127	"8430
46°41	·81	·7243	1·0505	·6895	"8599	0·0214	"8385
46°98	·82	·7311	1·0717	·6822	"8640	0·0301	"8339
47°56	·83	·7379	1·0934	·6749	"8680	0·0388	"8292
48°13	·84	·7446	1·1156	·6675	"8720	0·0475	"8244
48°70	·85	·7513	1·1383	·6600	"8758	0·0563	"8195
49°27	·86	·7578	1·1616	·6524	"8796	0·0650	"8145
49°85	·87	·7643	1·1853	·6448	"8833	0·0738	"8094
50°42	·88	·7707	1·2097	·6372	"8869	0·0827	"8042
50°90	·89	·7771	1·2346	·6294	"8905	0·0915	"7989
51°57	·90	·7833	1·2602	·6216	"8939	0·1004	"7935
52°14	·91	·7895	1·2864	·6137	"8974	0·1094	"7880
52°71	·92	·7956	1·3133	·6058	"9007	0·1184	"7823
53°29	·93	·8016	1·3409	·5978	"9040	0·1274	"7766
53°86	·94	·8076	1·3692	·5898	"9072	0·1365	"7707
54°43	·95	·8134	1·3984	·5817	"9103	0·1456	"7647
55°00	·96	·8192	1·4284	·5735	"9134	0·1548	"7585
55°58	·97	·8249	1·4592	·5653	"9164	0·1641	"7523
56°15	·98	·8305	1·4909	·5570	"9193	0·1735	"7459
56°72	·99	·8360	1·5237	·5487	"9222	0·1829	"7393
57°30	1·00	·8415	1·5574	·5403	"9250	0·1924	"7326
57°87	1·01	·8468	1·5922	·5319	"9278	0·2020	"7258
58°44	1·02	·8521	1·6281	·5234	"9305	0·2117	"7188
59°01	1·03	·8573	1·6653	·5148	"9331	0·2215	"7117
59°59	1·04	·8624	1·7036	·5062	"9357	0·2314	"7043
60°16	1·05	·8674	1·7433	·4976	"9382	0·2414	"6969
60°73	1·06	·8724	1·7844	·4889	"9407	0·2515	"6892
61°31	1·07	·8772	1·8270	·4801	"9431	0·2618	"6814
61°88	1·08	·8820	1·8712	·4713	"9454	0·2721	"6733
62°45	1·09	·8866	1·9171	·4625	"9477	0·2826	"6651
63°03	1·10	·8912	1·9648	·4536	"9500	0·2933	"6567

Degree.	Radian.	Sine.	Tangent.	Cosine.	Logarithms of		
					Sine.	Tangent.	Cosine.
63°08	1.10	.8912	1.965	.4536	1.9500	0.2933	1.6567
63°60	1.11	.8957	2.014	.4447	"9522	0.3041	"6480
64°17	1.12	.9001	2.066	.4357	"9543	0.3151	"6392
64°74	1.13	.9044	2.120	.4267	"9564	0.3263	"6301
65°32	1.14	.9086	2.176	.4176	"9584	0.3376	"6208
65°89	1.15	.9123	2.234	.4085	"9604	0.3492	"6112
66°46	1.16	.9168	2.296	.3993	"9623	0.3609	"6013
67°04	1.17	.9208	2.360	.3902	"9641	0.3729	"5912
67°61	1.18	.9246	2.427	.3809	"9660	0.3851	"5808
68°18	1.19	.9284	2.498	.3717	"9677	0.3976	"5701
68°75	1.20	.9320	2.572	.3624	"9694	0.4103	"5591
69°33	1.21	.9356	2.650	.3530	"9711	0.4233	"5478
69°90	1.22	.9391	2.733	.3436	"9727	0.4366	"5361
70°47	1.23	.9425	2.820	.3342	"9743	0.4502	"5241
71°05	1.24	.9458	2.912	.3248	"9758	0.4642	"5116
71°62	1.25	.9490	3.010	.3153	"9773	0.4785	"4988
72°19	1.26	.9521	3.113	.3058	"9787	0.4932	"4855
72°77	1.27	.9551	3.224	.2963	"9800	0.5083	"4717
73°34	1.28	.9580	3.341	.2867	"9814	0.5239	"4575
73°91	1.29	.9608	3.467	.2771	"9826	0.5400	"4427
74°48	1.30	.9636	3.602	.2675	"9839	0.5566	"4273
75°06	1.31	.9662	3.747	.2579	"9851	0.5737	"4114
75°63	1.32	.9687	3.903	.2482	"9862	0.5914	"3948
76°20	1.33	.9712	4.072	.2385	"9873	0.6098	"3774
76°78	1.34	.9735	4.256	.2288	"9883	0.6290	"3594
77°35	1.35	.9757	4.455	.2190	"9893	0.6489	"3405
77°92	1.36	.9779	4.674	.2092	"9903	0.6696	"3206
78°50	1.37	.9799	4.913	.1995	"9912	0.6914	"2998
79°07	1.38	.9819	5.177	.1896	"9920	0.7141	"2779
79°64	1.39	.9837	5.471	.1798	"9929	0.7380	"2548
80°21	1.40	.9854	5.798	.1700	"9936	0.7633	"2304
80°79	1.41	.9871	6.165	.1601	"9944	0.7900	"2044
81°36	1.42	.9886	6.581	.1502	"9950	0.8183	"1767
81°93	1.43	.9901	7.055	.1403	"9957	0.8485	"1472
82°51	1.44	.9915	7.619	.1304	"9963	0.8819	"1154
83°08	1.45	.9927	8.288	.1205	"9968	0.9168	"0810
83°65	1.46	.9939	8.989	.1106	"9973	0.9537	"0436
84°23	1.47	.9949	9.887	.1006	"9978	0.9951	"0027
84°80	1.48	.9959	10.984	.0907	"9982	1.0407	2.9575
85°37	1.49	.9967	12.350	.0807	"9986	1.0917	"9069
85°94	1.50	.9975	14.101	.0707	"9989	1.1493	"8497
86°52	1.51	.9982	16.423	.0608	"9992	1.2156	"7836
87°09	1.52	.9987	19.670	.0508	"9994	1.2938	"7056
87°66	1.53	.9992	24.499	.0408	"9996	1.3891	"6105
88°24	1.54	.9995	33.133	.0302	"9998	1.5203	"4795
88°81	1.55	.9998	48.101	.0208	"9999	1.6821	"3178
89°38	1.56	.9999	92.623	.0108	0.0000	1.9667	"0333
89°95	1.57	1.0000	1255.866	.0080	0.0000	3.0989	3.9011
90°00	$\pi/2$	1.0000	∞	.0000	0.0000	$+\infty$	$-\infty$

n	n^{-1}	n^2	n^3	\sqrt{n}	$\sqrt{10n}$	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	Dif.	$\sqrt[3]{100n}$
1	1	1	1	1	3.1623	1	2.1544		4.6416
2	.5	4	8	1.4142	4.4721	1.2599	2.7144		5.8480
3	.333333	9	27	1.7321	5.4772	1.4422	3.1072		6.6943
4	.25	16	64	2	6.3246	1.5874	3.4200		7.3681
5	.2	25	125	2.2361	7.0711	1.7100	3.6840		7.9370
6	.166667	36	216	2.4495	7.7460	1.8171	3.9149		8.4343
7	.142857	49	343	2.6458	8.3666	1.9129	4.1213		8.8790
8	.125	64	512	2.8284	8.9443	2	4.3089		9.2832
9	.111111	81	729	3	9.4868	2.0801	4.4814		9.6549
10	.1	100	1000	3.1623	10	2.1544	4.6416	1498	10
11	.090909	121	1331	3.3166	10.488	2.2240	4.7914	1410	10.323
12	.083333	144	1728	3.4641	10.954	2.2894	4.9324	1334	10.627
13	.076923	169	2197	3.6056	11.402	2.3513	5.0658	1267	10.914
14	.071429	196	2744	3.7417	11.832	2.4101	5.1925	1208	11.187
15	.066667	225	3375	3.8730	12.247	2.4662	5.3133	1155	11.447
16	.0625	256	4096	4	12.649	2.5198	5.4288	1109	11.696
17	.058824	289	4913	4.1231	13.033	2.5713	5.5397	1065	11.935
18	.055556	324	5832	4.2426	13.416	2.6207	5.6462	1027	12.164
19	.052632	361	6859	4.3589	13.784	2.6684	5.7489	991	12.386
20	.05	400	8000	4.4721	14.142	2.7144	5.8480	959	12.599
21	.047619	441	9261	4.5826	14.491	2.7589	5.9439	929	12.806
22	.045455	484	10648	4.6904	14.832	2.8020	6.0363	901	13.006
23	.043478	529	12167	4.7968	15.166	2.8439	6.1269	876	13.200
24	.041667	576	13824	4.8990	15.492	2.8845	6.2145	851	13.389
25	.04	625	15625	5	15.811	2.9240	6.2996	829	13.572
26	.038462	676	17576	5.0990	16.125	2.9625	6.3825	808	13.751
27	.037037	729	19683	5.1962	16.432	3	6.4633	788	13.925
28	.035714	784	21952	5.2915	16.733	3.0366	6.5421	770	14.096
29	.034483	841	24389	5.3852	17.029	3.0723	6.6191	752	14.260
30	.033333	900	27000	5.4772	17.321	3.1072	6.6943	736	14.422
31	.032258	961	29791	5.5678	17.607	3.1414	6.7679	720	14.581
32	.03125	1024	32768	5.6569	17.889	3.1748	6.8399	705	14.736
33	.030303	1089	35937	5.7446	18.166	3.2075	6.9104	691	14.888
34	.029412	1156	39304	5.8310	18.439	3.2396	6.9795	678	15.037
35	.028571	1225	42875	5.9161	18.708	3.2711	7.0473	665	15.183
36	.027778	1296	46656	6	18.974	3.3019	7.1138	653	15.326
37	.027027	1369	50653	6.0828	19.235	3.3322	7.1791	641	15.467
38	.026316	1444	54872	6.1644	19.494	3.3620	7.2432	629	15.605
39	.025641	1521	59319	6.2450	19.743	3.3912	7.3001	620	15.741
40	.025	1600	64000	6.3246	20	3.4200	7.3681	609	15.874
41	.024390	1681	68921	6.4031	20.248	3.4482	7.4290	599	16.005
42	.023810	1764	74038	6.4807	20.494	3.4760	7.4889	589	16.134
43	.023256	1849	79507	6.5574	20.736	3.5034	7.5478	581	16.261
44	.022727	1936	85184	6.6332	20.976	3.5303	7.6059	572	16.386
45	.022222	2025	91125	6.7082	21.213	3.5569	7.6631	563	16.510
46	.021739	2116	97336	6.7823	21.443	3.5830	7.7194	555	16.631
47	.021277	2209	103823	6.8557	21.679	3.6088	7.7750	547	16.751
48	.020833	2304	110592	6.9282	21.909	3.6342	7.8297	540	16.869
49	.020408	2401	117649	7	22.136	3.6593	7.8837	533	16.985
50	.02	2500	125000	7.0711	22.361	3.6840	7.9370	526	17.100

Along with the preceding column, this table of differences may be used for interpolation.

n	n-1	n²	n³	√n	√10n	∛n	∛10n	Diff.	∛100n
51	·018608	26 01	132 651	7·1414	22·593	3·7084	7·9896	519	17·213
52	·019231	27 04	140 608	7·2111	22·804	3·7325	8·0415	512	17·325
53	·018968	28 09	148 377	7·2801	23·022	3·7563	8·0927	506	17·435
54	·018519	29 16	157 464	7·3485	23·238	3·7798	8·1433	499	17·544
55	·018182	30 25	166 375	7·4162	23·452	3·8030	8·1932	494	17·652
56	·017857	31 36	175 616	7·4833	23·664	3·8259	8·2426	487	17·758
57	·017544	32 49	185 193	7·5498	23·875	3·8485	8·2913	483	17·863
58	·017241	33 64	195 112	7·6153	24·083	3·8709	8·3396	476	17·967
59	·016949	34 81	205 379	7·6811	24·290	3·8930	8·3872	471	18·070
60	·016667	36 00	216 000	7·7460	24·495	3·9149	8·4343	466	18·171
61	·016393	37 21	226 981	7·8102	24·698	3·9365	8·4809	461	18·272
62	·016129	38 44	238 328	7·8740	24·900	3·9579	8·5270	456	18·371
63	·015873	39 69	250 047	7·9373	25·100	3·9791	8·5726	451	18·469
64	·015625	40 96	262 144	8	25·298	4	8·6177	447	18·566
65	·015385	42 25	274 625	8·0623	25·495	4·0207	8·6624	442	18·663
66	·015152	43 56	287 496	8·1240	25·690	4·0412	8·7066	437	18·758
67	·014925	44 89	300 763	8·1854	25·884	4·0615	8·7503	434	18·852
68	·014706	46 24	314 432	8·2462	26·077	4·0817	8·7937	429	18·945
69	·014493	47 61	328 509	8·3066	26·268	4·1016	8·8366	424	19·038
70	·014286	49 00	343 000	8·3666	26·458	4·1213	8·8790	421	19·129
71	·014085	50 41	357 911	8·4261	26·646	4·1408	8·9211	417	19·220
72	·013889	51 84	373 248	8·4853	26·833	4·1602	8·9623	413	19·310
73	·013699	53 29	389 017	8·5440	27·019	4·1793	9·0041	409	19·399
74	·013514	54 76	405 224	8·6023	27·203	4·1983	9·0450	406	19·487
75	·013333	56 25	421 875	8·6603	27·386	4·2172	9·0856	402	19·574
76	·013158	57 76	438 976	8·7178	27·568	4·2358	9·1258	399	19·661
77	·012987	59 29	456 533	8·7750	27·749	4·2543	9·1657	395	19·747
78	·012821	60 84	474 562	8·8318	27·928	4·2727	9·2052	391	19·832
79	·012658	62 41	493 039	8·8882	28·107	4·2908	9·2443	389	19·916
80	·0125	64 00	512 000	8·9443	28·284	4·3089	9·2832	385	20
81	012346	65 61	531 441	9	28·460	4·3267	9·3217	382	20·083
82	·012195	67 24	551 368	9·0554	28·634	4·3445	9·3599	379	20·165
83	·012048	68 89	571 787	9·1104	28·810	4·3621	9·3978	376	20·247
84	·011905	70 56	592 704	9·1652	28·983	4·3795	9·4354	373	20·328
85	·011765	72 25	614 125	9·2195	29·155	4·3968	9·4727	370	20·408
86	·011628	73 96	635 056	9·2736	29·326	4·4140	9·5097	367	20·488
87	·011494	75 69	656 503	9·3274	29·496	4·4310	9·5464	364	20·567
88	·011364	77 44	681 472	9·3808	29·665	4·4480	9·5828	362	20·646
89	·011236	79 21	704 969	9·4340	29·833	4·4647	9·6190	359	20·724
90	·011111	81 00	729 000	9·4868	30	4·4814	9·6549	357	20·801
91	·010989	82 81	753 571	9·5394	30·168	4·4979	9·6905	354	20·878
92	·010870	84 64	778 688	9·5917	30·332	4·5144	9·7259	351	20·954
93	·010753	86 49	804 357	9·6437	30·496	4·5307	9·7610	349	21·029
94	·010638	88 36	830 584	9·6954	30·659	4·5468	9·7959	346	21·105
95	·010526	90 25	857 375	9·7468	30·822	4·5629	9·8305	343	21·179
96	·010417	92 16	884 736	9·7980	30·984	4·5789	9·8648	342	21·253
97	·010309	94 09	912 673	9·8489	31·145	4·5947	9·8990	339	21·327
98	·010204	96 04	941 192	9·8995	31·305	4·6104	9·9329	337	21·400
99	·010101	98 01	970 299	9·9499	31·464	4·6261	9·9668	334	21·472
100	·01	100 00	1000 000	10	31·623	4·6416	10		21·544

The reciprocals are given to the first four figures, no account being taken of 'place-value.'

Number.	0	1	2	3	4	5	6	7	8	9	Mean Differences to be subtracted.								
											1	2	3	4	5	6	7	8	9
10	1000	9001	9804	9709	9615	9524	9434	9346	9259	9174	9	18	27	36	45	55	64	73	82
11	9091	9009	8929	8850	8772	8696	8621	8547	8475	8403	8	15	23	30	38	45	53	61	68
12	8333	8264	8197	8130	8065	8000	7937	7874	7813	7752	6	13	19	26	32	38	45	51	58
13	7692	7634	7576	7519	7463	7407	7353	7299	7246	7194	5	11	16	22	27	33	38	44	49
14	7143	7092	7042	6993	6944	6897	6849	6803	6757	6711	5	10	14	19	24	29	33	38	43
15	6667	6623	6579	6536	6494	6452	6410	6369	6329	6289	4	8	13	17	21	25	29	33	38
16	6250	6211	6173	6135	6098	6061	6024	5988	5952	5917	4	7	11	15	18	22	26	29	33
17	5882	5848	5814	5780	5747	5714	5682	5650	5618	5587	3	7	10	13	16	20	23	26	29
18	5556	5525	5495	5464	5435	5405	5376	5348	5319	5291	3	6	9	12	15	18	21	23	26
19	5263	5236	5208	5181	5155	5128	5102	5076	5051	5025	3	5	8	11	13	16	18	21	24
20	5000	4975	4950	4926	4902	4878	4854	4831	4808	4785	2	5	7	10	12	14	17	19	21
21	4762	4739	4717	4695	4673	4651	4630	4608	4587	4566	2	4	7	9	11	13	15	17	20
22	4545	4525	4505	4484	4464	4444	4425	4405	4386	4367	2	4	6	8	10	12	14	16	18
23	4348	4329	4310	4292	4274	4255	4237	4219	4202	4184	2	4	5	7	9	11	13	14	16
24	4167	4149	4132	4115	4098	4082	4065	4049	4032	4016	2	3	5	7	8	10	12	13	15
25	4000	3984	3968	3953	3937	3922	3906	3891	3876	3861	2	3	5	6	8	9	11	12	14
26	3846	3831	3817	3802	3788	3774	3759	3745	3731	3717	1	3	4	6	7	9	10	11	13
27	3704	3690	3676	3663	3650	3636	3623	3610	3597	3584	1	3	4	5	7	8	9	11	12
28	3571	3559	3546	3534	3521	3509	3497	3484	3472	3460	1	2	4	5	6	7	9	10	11
29	3448	3436	3425	3413	3401	3390	3378	3367	3356	3344	1	2	3	5	6	7	8	9	10
30	3333	3322	3311	3300	3289	3279	3268	3257	3247	3236	1	2	3	4	5	6	7	9	10
31	3226	3215	3205	3195	3185	3175	3165	3155	3145	3135	1	2	3	4	5	6	7	8	9
32	3125	3115	3106	3096	3086	3077	3067	3058	3049	3040	1	2	3	4	5	6	7	8	9
33	3030	3021	3012	3003	2994	2985	2976	2967	2959	2950	1	2	3	4	4	5	6	7	8
34	2941	2933	2924	2915	2907	2899	2890	2882	2874	2865	1	2	3	3	4	5	6	7	8
35	2857	2849	2841	2833	2825	2817	2809	2801	2793	2786	1	2	3	3	4	5	6	6	7
36	2778	2770	2762	2755	2747	2740	2732	2725	2717	2710	1	2	2	3	4	5	5	6	7
37	2703	2695	2688	2681	2674	2667	2660	2653	2646	2639	1	1	2	3	4	4	5	6	6
38	2632	2625	2618	2611	2604	2597	2591	2584	2577	2571	1	1	2	3	4	4	5	5	6
39	2564	2558	2551	2545	2538	2532	2525	2519	2513	2506	1	1	2	3	3	4	4	5	6
40	2500	2494	2488	2481	2475	2469	2463	2457	2451	2445	1	1	2	2	3	4	4	5	5
41	2439	2433	2427	2421	2415	2410	2404	2398	2392	2387	1	1	2	2	3	3	4	5	5
42	2381	2375	2370	2364	2358	2353	2347	2342	2336	2331	1	1	2	2	3	3	4	4	5
43	2326	2320	2315	2309	2304	2299	2294	2288	2283	2278	1	1	2	2	3	3	4	4	5
44	2273	2268	2262	2257	2252	2247	2242	2237	2232	2227	1	1	2	2	3	3	4	4	5
45	2222	2217	2212	2208	2203	2198	2193	2188	2183	2179	0	1	1	2	2	3	3	4	4
46	2174	2169	2165	2160	2155	2151	2146	2141	2137	2132	0	1	1	2	2	3	3	4	4
47	2128	2123	2119	2114	2110	2105	2101	2096	2092	2088	0	1	1	2	2	3	3	4	4
48	2083	2079	2075	2070	2066	2062	2058	2053	2049	2045	0	1	1	2	2	3	3	4	4
49	2041	2037	2033	2028	2024	2020	2016	2012	2008	2004	0	1	1	2	2	2	3	3	4
50	2000	1996	1992	1988	1984	1980	1976	1972	1969	1965	0	1	1	2	2	2	3	3	4
51	1961	1957	1953	1949	1946	1942	1938	1934	1931	1927	0	1	1	2	2	2	3	3	3
52	1923	1919	1916	1912	1908	1905	1901	1898	1894	1890	0	1	1	1	2	2	3	3	3
53	1887	1883	1880	1876	1873	1869	1866	1862	1859	1855	0	1	1	1	2	2	2	3	3
54	1852	1848	1845	1842	1839	1835	1832	1828	1825	1821	0	1	1	1	2	2	2	3	3
55	1818	1815	1812	1808	1805	1802	1799	1795	1792	1789	0	1	1	1	2	2	2	3	3
56	1786	1783	1779	1776	1773	1770	1767	1764	1761	1757	0	1	1	1	2	2	2	3	3
57	1754	1751	1748	1745	1742	1739	1736	1733	1730	1727	0	1	1	1	2	2	2	2	3
58	1724	1721	1718	1715	1712	1709	1706	1703	1701	1698	0	1	1	1	1	2	2	2	3
59	1695	1692	1689	1686	1684	1681	1678	1675	1672	1669	0	1	1	1	1	2	2	2	3
60	1667	1664	1661	1658	1656	1653	1650	1647	1645	1642	0	1	1	1	1	2	2	2	2

The reciprocals are given to the first four figures, no account being taken of 'place-value.'

Number.	0	1	2	3	4	5	6	7	8	9	Diff.	Prime Nos. from 101 to 2011.				
												101	421	787	1181	1583
60	1667	1664	1661	1658	1656	1653	1650	1647	1645	1642	3	127	449	823	1217	1613
61	1639	1637	1634	1631	1629	1628	1623	1621	1618	1616	3	131	457	827	1223	1619
62	1613	1610	1608	1605	1603	1600	1597	1595	1592	1590	3	137	461	829	1229	1621
63	1587	1585	1582	1580	1577	1575	1572	1570	1567	1565	3	139	463	839	1231	1627
64	1563	1560	1558	1555	1553	1550	1548	1546	1543	1541	3	149	467	853	1237	1637
65	1538	1536	1534	1531	1529	1527	1524	1522	1520	1517	2	151	479	857	1249	1657
66	1515	1513	1511	1508	1506	1504	1502	1499	1497	1495	2	157	487	859	1259	1663
67	1493	1490	1488	1486	1484	1481	1479	1477	1475	1473	2	163	491	863	1277	1667
68	1471	1468	1466	1464	1462	1460	1458	1456	1453	1451	2	167	499	877	1279	1669
69	1449	1447	1445	1443	1441	1439	1437	1435	1433	1431	2	173	503	881	1283	1693
70	1429	1427	1425	1422	1420	1418	1416	1414	1412	1410	2	179	509	883	1289	1697
71	1403	1406	1404	1403	1401	1399	1397	1395	1393	1391	2	181	521	887	1291	1699
72	1389	1387	1385	1383	1381	1379	1377	1376	1374	1372	2	191	523	907	1297	1709
73	1370	1368	1366	1364	1362	1361	1359	1357	1355	1353	2	193	541	911	1301	1721
74	1351	1350	1348	1346	1344	1342	1340	1339	1337	1335	2	197	547	919	1303	1723
75	1333	1332	1330	1328	1326	1325	1323	1321	1319	1318	2	199	557	929	1307	1733
76	1316	1314	1312	1311	1309	1307	1305	1304	1302	1300	2	211	563	937	1319	1741
77	1299	1297	1295	1294	1292	1290	1289	1287	1285	1284	2	223	569	941	1321	1747
78	1282	1280	1279	1277	1276	1274	1272	1271	1269	1267	2	227	571	947	1327	1753
79	1266	1264	1263	1261	1259	1258	1256	1255	1253	1252	2	229	577	953	1361	1759
80	1250	1248	1247	1245	1244	1242	1241	1239	1238	1236	2	233	587	967	1367	1777
81	1235	1233	1232	1230	1229	1227	1225	1224	1222	1221	2	239	593	971	1373	1783
82	1220	1218	1217	1215	1214	1212	1211	1209	1208	1206	2	241	599	977	1381	1787
83	1205	1203	1202	1200	1199	1198	1196	1195	1193	1192	1	251	601	983	1399	1789
84	1190	1189	1188	1186	1185	1183	1182	1181	1179	1178	1	257	607	991	1409	1801
85	1176	1175	1174	1172	1171	1170	1168	1167	1166	1164	1	263	613	997	1423	1811
86	1163	1161	1160	1159	1157	1156	1155	1153	1152	1151	1	269	617	1009	1427	1823
87	1149	1148	1147	1145	1144	1143	1142	1140	1139	1138	1	271	619	1013	1429	1831
88	1136	1135	1134	1133	1131	1130	1129	1127	1126	1125	1	277	631	1019	1433	1847
89	1124	1122	1121	1120	1119	1117	1116	1115	1114	1112	1	281	641	1021	1439	1861
90	1111	1110	1109	1107	1106	1105	1104	1103	1101	1100	1	283	643	1031	1447	1867
91	1099	1098	1096	1095	1094	1093	1092	1091	1089	1088	1	293	647	1033	1451	1871
92	1087	1086	1085	1083	1082	1081	1080	1079	1078	1076	1	307	653	1039	1453	1873
93	1075	1074	1073	1072	1071	1070	1068	1067	1066	1065	1	311	659	1049	1459	1877
94	1064	1063	1062	1060	1059	1058	1057	1056	1055	1054	1	313	661	1051	1471	1879
95	1053	1052	1050	1049	1048	1047	1046	1045	1044	1043	1	317	673	1061	1481	1889
96	1042	1041	1040	1038	1037	1036	1035	1034	1033	1032	1	331	677	1063	1483	1901
97	1031	1030	1029	1028	1027	1026	1025	1024	1022	1021	1	337	683	1069	1487	1907
98	1020	1019	1018	1017	1016	1015	1014	1013	1012	1011	1	347	691	1087	1489	1913
99	1010	1009	1008	1007	1006	1005	1004	1003	1002	1001	1	349	701	1091	1493	1931
100	1000	9999	9990	9970	9960	9950	9940	9930	9921	9911	10	353	709	1093	1499	1933
101	9901	9891	9881	9872	9862	9852	9843	9833	9823	9814	10	359	719	1097	1511	1949
102	9804	9794	9785	9775	9766	9756	9747	9737	9728	9718	10	367	727	1103	1523	1951
103	9709	9699	9690	9681	9671	9662	9653	9643	9634	9625	9	373	733	1109	1531	1973
104	9615	9606	9597	9588	9579	9569	9560	9551	9542	9533	9	379	739	1117	1543	1979
105	9524	9515	9506	9497	9488	9479	9470	9461	9452	9443	9	383	743	1123	1549	1987
106	9434	9425	9416	9407	9398	9390	9381	9372	9363	9355	9	389	751	1129	1553	1993
107	9346	9337	9328	9320	9311	9302	9294	9285	9276	9268	9	397	757	1151	1559	1997
108	9259	9251	9242	9234	9225	9217	9208	9200	9191	9183	9	401	761	1153	1567	1999
109	9174	9166	9158	9149	9141	9132	9124	9116	9107	9099	9	409	769	1163	1571	2003
110	9091	9083	9074	9066	9058	9050	9042	9033	9025	9017	8	419	778	1171	1579	2011

The squares are given to the first four figures, no account being taken of 'place-value.'

Number.	0	1	2	3	4	5	6	7	8	9	Mean Differences.								
											1	2	3	4	5	6	7	8	9
10	1000	1020	1040	1061	1082	1103	1124	1145	1166	1188	2	4	6	8	11	13	15	17	19
11	1210	1232	1254	1277	1300	1323	1346	1369	1392	1416	2	5	7	9	12	14	16	18	21
12	1440	1464	1488	1513	1538	1563	1588	1613	1638	1664	3	5	8	10	13	15	18	20	23
13	1690	1716	1742	1769	1796	1823	1850	1877	1904	1932	3	5	8	11	14	16	19	22	24
14	1960	1988	2016	2045	2074	2103	2132	2161	2190	2220	3	6	9	12	15	17	20	23	26
15	2250	2280	2310	2341	2372	2403	2434	2465	2496	2528	3	6	9	12	16	19	22	25	28
16	2560	2592	2624	2657	2690	2723	2756	2789	2822	2856	3	7	10	13	17	20	23	26	30
17	2890	2924	2958	2993	3028	3063	3098	3133	3168	3204	4	7	11	14	18	21	25	28	32
18	3240	3276	3312	3349	3386	3423	3460	3497	3534	3572	4	7	11	15	19	22	26	30	33
19	3610	3648	3686	3725	3764	3803	3842	3881	3920	3960	4	8	12	16	20	23	27	31	35
20	4000	4040	4080	4121	4162	4203	4244	4285	4326	4368	4	8	12	16	21	25	29	33	37
21	4410	4452	4494	4537	4580	4623	4666	4709	4752	4796	4	9	13	17	22	26	30	34	39
22	4840	4884	4928	4973	5018	5063	5108	5153	5198	5244	5	9	14	18	23	27	32	36	41
23	5290	5336	5382	5429	5476	5523	5570	5617	5664	5712	5	9	14	19	24	28	33	38	42
24	5760	5808	5856	5905	5954	6003	6052	6101	6150	6200	5	10	15	20	25	29	34	39	44
25	6250	6300	6350	6401	6452	6503	6554	6605	6656	6708	5	10	15	20	26	31	36	41	46
26	6760	6812	6864	6917	6970	7023	7076	7129	7182	7236	5	11	16	21	27	32	37	42	48
27	7290	7344	7398	7453	7508	7563	7618	7673	7728	7784	6	11	17	22	28	33	39	44	50
28	7840	7896	7952	8009	8066	8123	8180	8237	8294	8352	6	11	17	23	29	34	40	46	51
29	8410	8468	8526	8585	8644	8703	8762	8821	8880	8940	6	12	18	24	30	35	41	47	53
30	9000	9060	9120	9181	9242	9303	9364	9425	9486	9548	6	12	18	24	31	37	43	49	55
31	9610	9672	9734	9797	9860	9923	9986				6	13	19	25	32	38	44	50	56
31								1005	1011	1018	1	1	2	3	3	4	4	5	6
32	1024	1030	1037	1043	1050	1056	1063	1069	1076	1082	1	1	2	3	3	4	5	5	6
33	1089	1096	1102	1109	1116	1122	1129	1136	1142	1149	1	1	2	3	3	4	5	5	6
34	1156	1163	1170	1176	1183	1190	1197	1204	1211	1218	1	1	2	3	3	4	5	6	6
35	1225	1232	1239	1246	1253	1260	1267	1274	1282	1289	1	1	2	3	4	4	5	6	6
36	1296	1303	1310	1318	1325	1332	1340	1347	1354	1362	1	1	2	3	4	4	5	6	6
37	1369	1376	1384	1391	1399	1406	1414	1421	1429	1436	1	2	2	3	4	5	5	6	7
38	1444	1452	1459	1467	1475	1482	1490	1498	1505	1513	1	2	2	3	4	5	5	6	7
39	1521	1529	1537	1544	1552	1560	1568	1576	1584	1592	1	2	2	3	4	5	6	6	7
40	1600	1608	1616	1624	1632	1640	1648	1656	1665	1673	1	2	2	3	4	5	6	6	7
41	1681	1689	1697	1706	1714	1722	1731	1739	1747	1756	1	2	2	3	4	5	6	7	7
42	1764	1772	1781	1789	1798	1806	1815	1823	1832	1840	1	2	3	3	4	5	6	7	8
43	1849	1858	1866	1875	1884	1892	1901	1910	1918	1927	1	2	3	3	4	5	6	7	8
44	1936	1945	1954	1962	1971	1980	1989	1998	2007	2016	1	2	3	4	4	5	6	7	8
45	2025	2034	2043	2052	2061	2070	2079	2088	2098	2107	1	2	3	4	5	5	6	7	8
46	2116	2125	2134	2144	2153	2162	2172	2181	2190	2200	1	2	3	4	5	6	7	7	8
47	2209	2218	2228	2237	2247	2256	2266	2275	2285	2294	1	2	3	4	5	6	7	8	9
48	2304	2314	2323	2333	2343	2352	2362	2372	2381	2391	1	2	3	4	5	6	7	8	9
49	2401	2411	2421	2430	2440	2450	2460	2470	2480	2490	1	2	3	4	5	6	7	8	9
50	2500	2510	2520	2530	2540	2550	2560	2570	2581	2591	1	2	3	4	5	6	7	8	9
51	2601	2611	2621	2632	2642	2652	2663	2673	2683	2694	1	2	3	4	5	6	7	8	9
52	2704	2714	2725	2735	2746	2756	2767	2777	2788	2798	1	2	3	4	5	6	7	8	9
53	2809	2820	2830	2841	2852	2862	2873	2884	2894	2905	1	2	3	4	5	6	7	8	9
54	2916	2927	2938	2948	2959	2970	2981	2992	3003	3014	1	2	3	4	5	7	8	9	10
55	3025	3036	3047	3058	3069	3080	3091	3102	3114	3125	1	2	3	4	6	7	8	9	10

SQUARES OF NUMBERS.

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The squares are given to the first four figures, no account being taken of 'place-value.'

Number.	0	1	2	3	4	5	6	7	8	9	Mean Differences.								
											1	2	3	4	5	6	7	8	9
55	3025	3036	3047	3058	3069	3080	3091	3102	3114	3125	1	2	3	4	5	6	7	8	9
56	3136	3147	3158	3170	3181	3192	3204	3215	3226	3238	1	2	3	4	5	6	7	8	9
57	3249	3260	3272	3283	3295	3306	3318	3329	3341	3352	1	2	3	4	5	6	7	8	9
58	3364	3376	3387	3399	3411	3422	3434	3446	3457	3469	1	2	3	4	5	6	7	8	9
59	3481	3493	3505	3516	3528	3540	3552	3564	3576	3588	1	2	3	4	5	6	7	8	9
60	3600	3612	3624	3636	3648	3660	3672	3684	3697	3709	1	2	3	4	5	6	7	8	9
61	3721	3733	3745	3758	3770	3782	3795	3807	3819	3832	1	2	3	4	5	6	7	8	9
62	3844	3856	3869	3881	3894	3906	3919	3931	3944	3956	1	2	3	4	5	6	7	8	9
63	3969	3982	3994	4007	4020	4032	4045	4058	4070	4083	1	2	3	4	5	6	7	8	9
64	4096	4109	4122	4134	4147	4160	4173	4186	4199	4212	1	2	3	4	5	6	7	8	9
65	4225	4238	4251	4264	4277	4290	4303	4316	4330	4343	1	2	3	4	5	6	7	8	9
66	4356	4369	4382	4396	4409	4422	4436	4449	4462	4476	1	2	3	4	5	6	7	8	9
67	4489	4502	4516	4529	4543	4556	4570	4583	4597	4610	1	2	3	4	5	6	7	8	9
68	4624	4638	4651	4665	4679	4692	4706	4720	4733	4747	1	2	3	4	5	6	7	8	9
69	4761	4775	4789	4802	4816	4830	4844	4858	4872	4886	1	2	3	4	5	6	7	8	9
70	4900	4914	4928	4942	4956	4970	4984	4998	5013	5027	1	2	3	4	5	6	7	8	9
71	5041	5055	5069	5084	5098	5112	5127	5141	5155	5170	1	2	3	4	5	6	7	8	9
72	5184	5198	5213	5227	5242	5256	5271	5285	5300	5314	1	2	3	4	5	6	7	8	9
73	5329	5344	5358	5373	5388	5402	5417	5432	5446	5461	1	2	3	4	5	6	7	8	9
74	5476	5491	5506	5520	5535	5550	5565	5580	5595	5610	1	2	3	4	5	6	7	8	9
75	5625	5640	5655	5670	5685	5700	5715	5730	5746	5761	2	3	4	5	6	7	8	9	10
76	5776	5791	5806	5822	5837	5852	5868	5883	5898	5914	2	3	4	5	6	7	8	9	10
77	5929	5944	5960	5975	5991	6006	6022	6037	6053	6068	2	3	4	5	6	7	8	9	10
78	6084	6100	6115	6131	6147	6162	6178	6194	6209	6225	2	3	4	5	6	7	8	9	10
79	6241	6257	6273	6288	6304	6320	6336	6352	6368	6384	2	3	4	5	6	7	8	9	10
80	6400	6416	6432	6448	6464	6480	6496	6512	6529	6545	2	3	4	5	6	7	8	9	10
81	6561	6577	6593	6610	6626	6642	6659	6675	6691	6708	2	3	4	5	6	7	8	9	10
82	6724	6740	6757	6773	6790	6806	6823	6839	6856	6872	2	3	4	5	6	7	8	9	10
83	6889	6906	6922	6939	6956	6972	6989	7006	7022	7039	2	3	4	5	6	7	8	9	10
84	7056	7073	7090	7106	7123	7140	7157	7174	7191	7208	2	3	4	5	6	7	8	9	10
85	7225	7242	7259	7276	7293	7310	7327	7344	7362	7379	2	3	4	5	6	7	8	9	10
86	7396	7413	7430	7448	7465	7482	7500	7517	7534	7552	2	3	4	5	6	7	8	9	10
87	7569	7586	7604	7621	7639	7656	7674	7691	7709	7726	2	3	4	5	6	7	8	9	10
88	7744	7762	7779	7797	7815	7832	7850	7868	7885	7903	2	3	4	5	6	7	8	9	10
89	7921	7939	7957	7974	7992	8010	8028	8046	8064	8082	2	3	4	5	6	7	8	9	10
90	8100	8118	8136	8154	8172	8190	8208	8226	8245	8263	2	3	4	5	6	7	8	9	10
91	8281	8299	8317	8336	8354	8372	8391	8409	8427	8446	2	3	4	5	6	7	8	9	10
92	8464	8482	8501	8519	8538	8556	8575	8593	8612	8630	2	3	4	5	6	7	8	9	10
93	8649	8668	8686	8705	8724	8742	8761	8780	8798	8817	2	3	4	5	6	7	8	9	10
94	8836	8855	8874	8892	8911	8930	8949	8968	8987	9006	2	3	4	5	6	7	8	9	10
95	9025	9044	9063	9082	9101	9120	9139	9158	9177	9197	2	3	4	5	6	7	8	9	10
96	9216	9235	9254	9274	9293	9312	9332	9351	9370	9390	2	3	4	5	6	7	8	9	10
97	9409	9428	9448	9467	9487	9506	9526	9545	9565	9584	2	3	4	5	6	7	8	9	10
98	9604	9624	9643	9663	9683	9702	9722	9742	9761	9781	2	3	4	5	6	7	8	9	10
99	9801	9821	9841	9860	9880	9900	9920	9940	9960	9980	2	3	4	5	6	7	8	9	10

CUBES OF NUMBERS.

The cubes are given to the first four figures, no account being taken of 'place-value.'

Number.	0	1	2	3	4	5	6	7	8	9	Mean Differences.								
											1	2	3	4	5	6	7	8	9
10	1000	1030	1061	1093	1125	1158	1191	1225	1260	1295	3	7	10	13	17	20	23	26	30
11	1331	1368	1405	1443	1482	1521	1561	1602	1643	1685	4	8	12	16	20	24	28	32	36
12	1728	1772	1816	1861	1907	1953	2000	2048	2097	2147	5	9	14	19	23	28	33	38	42
13	2197	2248	2300	2353	2406	2460	2515	2571	2628	2686	5	11	16	22	27	33	38	44	49
14	2744	2803	2863	2924	2986	3049	3112	3177	3242	3308	6	13	19	25	32	38	44	50	57
15	3375	3443	3512	3582	3652	3724	3796	3870	3944	4020	7	14	22	29	36	43	50	58	65
16	4096	4173	4252	4331	4411	4492	4574	4657	4742	4827	8	16	25	33	41	49	57	65	74
17	4913	5000	5088	5178	5268	5359	5452	5545	5640	5735	9	18	28	37	46	55	64	74	83
18	5832	5930	6029	6128	6230	6332	6435	6539	6645	6751	10	20	31	41	52	62	72	82	92
19	6859	6968	7078	7189	7301	7415	7530	7645	7762	7881	11	23	34	46	57	68	80	91	103
20	8000	8121	8242	8365	8490	8615	8742	8870	8999	9129	13	25	38	50	63	76	88	101	113
21	9261	9394	9528	9664	9800	9938					14	27	41	54	68	82	95	109	122
21							1008	1022	1036	1050	1	3	5	6	7	9	10	12	13
22	1065	1079	1094	1109	1124	1139	1154	1170	1185	1201	2	3	5	6	8	9	11	12	14
23	1217	1233	1249	1265	1281	1298	1314	1331	1348	1365	2	3	5	7	8	10	12	13	15
24	1382	1400	1417	1435	1453	1471	1489	1507	1525	1544	2	4	5	7	9	11	13	14	16
25	1563	1581	1600	1619	1639	1658	1678	1697	1717	1737	2	4	6	8	10	12	14	16	18
26	1758	1778	1798	1819	1840	1861	1882	1903	1925	1947	2	4	6	8	11	13	15	17	19
27	1968	1990	2012	2035	2057	2080	2102	2125	2148	2172	2	5	7	9	11	14	16	18	20
28	2195	2219	2243	2267	2291	2315	2339	2364	2389	2414	2	5	7	10	12	15	17	20	22
29	2439	2464	2490	2515	2541	2567	2593	2620	2646	2673	3	5	8	10	13	16	18	21	23
30	2700	2727	2754	2782	2809	2837	2865	2893	2922	2950	3	6	8	11	14	17	20	22	25
31	2979	3008	3037	3066	3095	3126	3155	3186	3216	3246	3	6	9	12	15	18	21	24	27
32	3277	3308	3339	3370	3401	3433	3465	3497	3529	3561	3	6	10	13	16	19	22	25	29
33	3594	3626	3659	3693	3726	3760	3793	3827	3861	3896	3	7	10	13	17	20	24	27	30
34	3930	3965	4000	4035	4071	4106	4142	4178	4214	4251	4	7	11	14	18	21	25	29	32
35	4288	4324	4361	4399	4436	4474	4512	4550	4588	4627	4	8	11	15	19	23	26	30	34
36	4666	4705	4744	4783	4823	4863	4903	4943	4984	5024	4	8	12	16	20	24	28	32	36
37	5065	5106	5148	5190	5231	5273	5316	5358	5401	5444	4	8	13	17	21	25	30	34	38
38	5487	5531	5574	5618	5662	5707	5751	5796	5841	5886	4	9	13	18	22	27	31	36	40
39	5932	5978	6024	6070	6116	6163	6210	6257	6304	6352	5	9	14	19	23	28	33	37	42
40	6400	6448	6496	6545	6594	6643	6692	6742	6792	6842	5	10	15	20	25	30	34	39	44
41	6892	6943	6993	7044	7096	7147	7199	7251	7303	7356	5	10	16	21	26	31	36	41	47
42	7409	7462	7515	7569	7623	7677	7731	7785	7840	7895	5	11	16	22	27	33	38	43	49
43	7951	8006	8062	8118	8175	8231	8288	8345	8403	8460	6	11	17	23	28	34	40	45	51
44	8518	8577	8635	8694	8753	8812	8872	8931	8992	9052	6	12	18	24	30	36	42	48	54
45	9113	9173	9233	9293	9353	9412	9482	9544	9607	9670	6	12	19	25	31	37	43	50	56
46	9734	9797	9861	9925	9990						6	13	19	26	32	38	45	51	58
46						1005	1012	1018	1025	1032	1	1	2	3	3	4	5	5	6
47	1038	1045	1052	1058	1065	1072	1079	1085	1092	1099	1	1	2	3	3	4	5	5	6
48	1106	1113	1120	1127	1134	1141	1148	1155	1162	1169	1	1	2	3	4	4	5	6	6
49	1176	1184	1191	1198	1206	1213	1220	1228	1235	1243	1	1	2	3	4	4	5	6	7
50	1250	1258	1265	1273	1280	1288	1296	1303	1311	1319	1	2	2	3	4	5	5	6	7
51	1327	1334	1342	1350	1358	1366	1374	1382	1390	1398	1	2	2	3	4	5	6	6	7
52	1406	1414	1422	1431	1439	1447	1455	1464	1472	1480	1	2	2	3	4	5	6	7	7
53	1489	1497	1506	1514	1523	1531	1540	1549	1557	1566	1	2	3	3	4	5	6	7	8
54	1575	1583	1592	1601	1610	1619	1628	1637	1646	1655	1	2	3	4	4	5	6	7	8
55	1664	1673	1682	1691	1700	1710	1719	1728	1737	1747	1	2	3	4	5	6	6	7	8

CUBES OF NUMBERS.

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The cubes are given to the first four figures, no account being taken of 'place-value.'

Number.	0	1	2	3	4	5	6	7	8	9	Mean Differences.								
											1	2	3	4	5	6	7	8	9
55	1664	1673	1682	1691	1700	1710	1719	1728	1737	1747	1	2	3				6	7	8
56	1756	1766	1775	1785	1794	1804	1813	1823	1833	1842	1	2	3	4	5	6	7	8	9
57	1852	1862	1871	1881	1891	1901	1911	1921	1931	1941	1	2	3	4	5	6	7	8	9
58	1951	1961	1971	1982	1992	2002	2012	2023	2033	2043	1	2	3	4	5	6	7	8	9
59	2054	2064	2075	2085	2096	2106	2117	2128	2138	2149	1	2	3	4	5	6	7	8	10
60	2160	2171	2182	2193	2203	2214	2225	2236	2248	2259	1	2	3	4	6	7	8	9	10
61	2270	2281	2292	2303	2315	2326	2337	2349	2360	2372	1	2	4	5	6	7	8	9	10
62	2383	2395	2406	2418	2430	2441	2453	2465	2477	2489	1	2	4	5	6	7	8	9	11
63	2500	2512	2524	2536	2548	2560	2573	2585	2597	2609	1	2	4	5	6	7	8	10	11
64	2621	2634	2646	2658	2671	2683	2696	2708	2721	2734	1	3	4	5	6	8	9	10	11
65	2746	2759	2772	2784	2797	2810	2823	2836	2849	2862	1	3	4	5	6	8	9	10	12
66	2875	2888	2901	2914	2928	2941	2954	2967	2981	2994	1	3	4	5	7	8	9	11	12
67	3008	3021	3035	3048	3062	3075	3089	3103	3117	3130	1	3	4	5	7	8	10	11	12
68	3144	3158	3172	3186	3200	3214	3228	3242	3257	3271	1	3	4	6	7	8	10	11	13
69	3285	3299	3314	3328	3343	3357	3372	3386	3401	3415	1	3	4	6	7	9	10	12	13
70	3430	3445	3459	3474	3489	3504	3519	3534	3549	3564	1	3	4	6	7	9	10	12	13
71	3579	3594	3609	3625	3640	3655	3671	3686	3701	3717	2	3	5	6	7	9	11	12	14
72	3732	3748	3764	3779	3795	3811	3827	3842	3858	3874	2	3	5	6	8	9	11	13	14
73	3890	3906	3922	3938	3954	3971	3987	4003	4019	4036	2	3	5	6	8	10	11	13	15
74	4052	4069	4085	4102	4118	4135	4152	4168	4185	4202	2	3	5	7	8	10	12	13	15
75	4219	4236	4253	4270	4287	4304	4321	4338	4355	4372	2	3	5	7	9	10	12	14	15
76	4390	4407	4425	4442	4459	4477	4495	4512	4530	4548	2	4	5	7	9	11	12	14	16
77	4565	4583	4601	4619	4637	4655	4673	4691	4709	4727	2	4	5	7	9	11	13	14	16
78	4746	4764	4782	4800	4819	4837	4856	4874	4893	4912	2	4	6	7	9	11	13	15	17
79	4930	4949	4968	4987	5006	5025	5044	5063	5082	5101	2	4	6	8	10	11	13	15	17
80	5120	5139	5158	5178	5197	5217	5236	5256	5275	5295	2	4	6	8	10	12	14	16	17
81	5314	5334	5354	5374	5394	5413	5433	5453	5473	5494	2	4	6	8	10	12	14	16	18
82	5514	5534	5554	5574	5595	5615	5636	5656	5677	5697	2	4	6	8	10	12	14	16	18
83	5718	5739	5759	5780	5801	5822	5843	5864	5885	5906	2	4	6	8	10	12	14	16	19
84	5927	5948	5969	5991	6012	6034	6055	6076	6098	6120	2	4	6	9	11	13	15	17	19
85	6141	6163	6185	6207	6228	6250	6272	6294	6316	6338	2	4	7	9	11	13	15	18	20
86	6361	6383	6405	6427	6450	6472	6495	6517	6540	6562	2	5	7	9	11	13	16	18	20
87	6585	6608	6631	6653	6676	6699	6722	6745	6768	6792	2	5	7	9	12	14	16	18	21
88	6815	6838	6861	6885	6908	6932	6955	6979	7002	7026	2	5	7	9	12	14	16	19	21
89	7050	7073	7097	7121	7145	7169	7193	7217	7242	7266	2	5	7	10	12	14	17	19	22
90	7290	7314	7339	7363	7388	7412	7437	7461	7486	7511	2	5	7	10	12	15	17	20	22
91	7536	7561	7586	7610	7636	7661	7686	7711	7736	7762	3	5	8	10	13	15	18	20	23
92	7787	7812	7838	7863	7889	7915	7940	7966	7992	8018	3	5	8	10	13	15	18	21	23
93	8044	8070	8096	8122	8148	8174	8200	8227	8253	8279	3	5	8	10	13	16	18	21	24
94	8306	8332	8359	8386	8412	8439	8466	8493	8520	8547	3	5	8	11	13	16	19	21	24
95	8574	8601	8628	8655	8683	8710	8737	8765	8792	8820	3	5	8	11	14	16	19	22	25
96	8847	8875	8903	8931	8958	8986	9014	9042	9070	9099	3	6	8	11	14	17	20	22	25
97	9127	9155	9183	9212	9240	9269	9297	9326	9354	9383	3	6	9	11	14	17	20	23	26
98	9412	9441	9470	9499	9528	9557	9586	9615	9644	9674	3	6	9	12	15	17	20	23	26
99	9703	9732	9762	9791	9821	9851	9880	9910	9940	9970	3	6	9	12	15	18	21	24	27

COMPOUND INTEREST TABLE,

Showing 'Amount' of £1, after from 1 to 50 years (or other equal periods), at

Year or Period.	1 %.	1.5 %.	2 %.	2.5 %.	3 %.	3.5 %.	4 %.	4.5 %.	5 %.
1	1.01000	1.01500	1.02000	1.02500	1.03000	1.03500	1.04000	1.04500	1.05000
2	1.02010	1.03023	1.04040	1.05063	1.06090	1.07123	1.08160	1.09203	1.10260
3	1.03030	1.04568	1.06121	1.07689	1.09273	1.10872	1.12486	1.14117	1.15763
4	1.04060	1.06136	1.08243	1.10381	1.12551	1.14752	1.16986	1.19252	1.21551
5	1.05101	1.07728	1.10408	1.13141	1.15927	1.18769	1.21665	1.24618	1.27628
6	1.06152	1.09344	1.12616	1.15969	1.19405	1.22926	1.26532	1.30225	1.34010
7	1.07214	1.10984	1.14869	1.18869	1.22987	1.27228	1.31593	1.36086	1.40710
8	1.08286	1.12649	1.17166	1.21840	1.26677	1.31681	1.36857	1.42210	1.47746
9	1.09369	1.14339	1.19509	1.24886	1.30477	1.36290	1.42331	1.48610	1.55133
10	1.10462	1.16054	1.21899	1.28008	1.34392	1.41060	1.48024	1.55297	1.62889
11	1.11567	1.17795	1.24337	1.31209	1.38423	1.45997	1.53945	1.62285	1.71034
12	1.12683	1.19562	1.26824	1.34489	1.42576	1.51107	1.60103	1.69588	1.79586
13	1.13809	1.21355	1.29361	1.37851	1.46853	1.56396	1.66507	1.77220	1.88565
14	1.14947	1.23176	1.31948	1.41297	1.51259	1.61869	1.73168	1.85194	1.97993
15	1.16097	1.25023	1.34587	1.44830	1.55797	1.67535	1.80094	1.93528	2.07793
16	1.17258	1.26899	1.37279	1.48451	1.60471	1.73399	1.87298	2.02237	2.18287
17	1.18430	1.28802	1.40024	1.52162	1.65285	1.79468	1.94790	2.11338	2.29202
18	1.19615	1.30734	1.42825	1.55966	1.70243	1.85749	2.02582	2.20848	2.40662
19	1.20811	1.32695	1.45681	1.59865	1.75851	1.92250	2.10685	2.30786	2.52695
20	1.22019	1.34686	1.48595	1.63862	1.80611	1.98979	2.19112	2.41171	2.65330
21	1.23239	1.36706	1.51567	1.67958	1.85629	2.05943	2.27877	2.52024	2.78596
22	1.24472	1.38756	1.54598	1.72157	1.91610	2.13151	2.36992	2.63365	2.92526
23	1.25716	1.40838	1.57690	1.76461	1.97359	2.20611	2.46472	2.75217	3.07152
24	1.26973	1.42950	1.60844	1.80873	2.03279	2.28333	2.56330	2.87601	3.22510
25	1.28243	1.45095	1.64061	1.85394	2.09373	2.36324	2.66584	3.00543	3.38635
26	1.29526	1.47271	1.67342	1.90029	2.15659	2.44596	2.77247	3.14068	3.55567
27	1.30821	1.49480	1.70689	1.94780	2.22129	2.53157	2.88337	3.28201	3.73346
28	1.32129	1.51722	1.74102	1.99650	2.28798	2.62017	2.99870	3.42970	3.92013
29	1.33450	1.53998	1.77584	2.04641	2.35657	2.71188	3.11865	3.58404	4.11614
30	1.34785	1.56308	1.81136	2.09767	2.42726	2.80679	3.24340	3.74532	4.32194
31	1.36133	1.58653	1.84759	2.15001	2.50008	2.90503	3.37813	3.91386	4.53804
32	1.37494	1.61032	1.88454	2.20376	2.57508	3.00671	3.50806	4.08993	4.76494
33	1.38869	1.63448	1.92223	2.25886	2.65234	3.11194	3.64838	4.27403	5.00319
34	1.40258	1.65900	1.96068	2.31532	2.73191	3.22039	3.79432	4.46636	5.25335
35	1.41660	1.68388	1.99960	2.37321	2.81386	3.33569	3.94609	4.66735	5.51602
36	1.43077	1.70914	2.03939	2.43254	2.89892	3.45027	4.10393	4.87738	5.79182
37	1.44508	1.73478	2.08069	2.49335	2.98523	3.57103	4.26809	5.09686	6.08141
38	1.45953	1.76080	2.12230	2.55563	3.07478	3.69601	4.43881	5.32622	6.38548
39	1.47412	1.78721	2.16474	2.61967	3.16703	3.82537	4.61637	5.56590	6.70475
40	1.48886	1.81402	2.20904	2.68506	3.26204	3.95920	4.80102	5.81636	7.03999
41	1.50375	1.84123	2.25220	2.75219	3.35990	4.09783	4.99306	6.07810	7.39199
42	1.51879	1.86885	2.29724	2.82100	3.46070	4.24126	5.19278	6.35162	7.76159
43	1.53398	1.89688	2.34319	2.89152	3.56452	4.38970	5.40050	6.63744	8.14967
44	1.54932	1.92533	2.39005	2.96381	3.67145	4.54334	5.61652	6.93612	8.55715
45	1.56481	1.95421	2.43785	3.03790	3.78160	4.70236	5.84118	7.24825	8.98501
46	1.58046	1.98353	2.48661	3.11385	3.89504	4.86694	6.07482	7.57442	9.43426
47	1.59626	2.01328	2.53634	3.19170	4.01190	5.03728	6.31782	7.91527	9.90597
48	1.61223	2.04348	2.58707	3.27149	4.13225	5.21350	6.57053	8.27146	10.40127
49	1.62835	2.07413	2.63881	3.35328	4.25622	5.39666	6.83835	8.64367	10.92133
50	1.64463	2.10524	2.69169	3.43711	4.38391	5.58493	7.10968	9.03264	11.46740

COMPOUND INTEREST TABLE.

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Present Value of £1 due 1 to 50 years (or other equal periods) hence, at

Year or Period.	1 %.	1·5 %.	2 %.	2·5 %.	3 %.	3·5 %.	4 %.	4·5 %.	5 %.
1	·99010	·98522	·98039	·97561	·97087	·96618	·96154	·95694	·95238
2	·98030	·97066	·96117	·95181	·94260	·93351	·92450	·91573	·90703
3	·97059	·95632	·94232	·92860	·91514	·90194	·88900	·87630	·86384
4	·96098	·94218	·92385	·90595	·88849	·87144	·85480	·83856	·82270
5	·95147	·92826	·90673	·88385	·86261	·84197	·82193	·80245	·78353
6	·94205	·91454	·88797	·86220	·83748	·81350	·79031	·76790	·74622
7	·93272	·90103	·87056	·84127	·81309	·78599	·75992	·73483	·71068
8	·92348	·88771	·85349	·82075	·78941	·75941	·73069	·70319	·67684
9	·91434	·87459	·83676	·80073	·76642	·73373	·70259	·67290	·64461
10	·90529	·86167	·82035	·78120	·74409	·70892	·67556	·64398	·61391
11	·89632	·84893	·80426	·76214	·72242	·68495	·64958	·61620	·58469
12	·88745	·83639	·78849	·74356	·70138	·66178	·62460	·58966	·55684
13	·87866	·82403	·77303	·72542	·68095	·63940	·60057	·56427	·53032
14	·86996	·81185	·75788	·70773	·66112	·61778	·57748	·53997	·50507
15	·86135	·79985	·74301	·69047	·64186	·59689	·55526	·51672	·48102
16	·85282	·78303	·72845	·67363	·62317	·57671	·53391	·49447	·45811
17	·84438	·77639	·71416	·65720	·60502	·55720	·51337	·47318	·43630
18	·83602	·76491	·70016	·64117	·58739	·53836	·49363	·45280	·41562
19	·82774	·75361	·68643	·62553	·57029	·52016	·47464	·43330	·39573
20	·81954	·74247	·67297	·61027	·55368	·50257	·45639	·41464	·37689
21	·81143	·73150	·65978	·59539	·53755	·48557	·43883	·39679	·35894
22	·80340	·72069	·64684	·58086	·52189	·46915	·42196	·37970	·34185
23	·79544	·71004	·63416	·56670	·50669	·45329	·40573	·36335	·32557
24	·78757	·69954	·62172	·55288	·49193	·43796	·39012	·34770	·31007
25	·77977	·68921	·60953	·53939	·47761	·42315	·37512	·33273	·29530
26	·77205	·67902	·59758	·52623	·46369	·40834	·36069	·31840	·28124
27	·76440	·66899	·58586	·51340	·45019	·39501	·34682	·30469	·26785
28	·75684	·65910	·57437	·50088	·43703	·38165	·33348	·29157	·25509
29	·74934	·64936	·56311	·48866	·42435	·36875	·32065	·27902	·24295
30	·74192	·63976	·55207	·47674	·41199	·35623	·30832	·26700	·23138
31	·73458	·63031	·54125	·46511	·39999	·34423	·29646	·25550	·22036
32	·72730	·62099	·53063	·45377	·38834	·33259	·28506	·24450	·20987
33	·72010	·61182	·52023	·44270	·37703	·32134	·27409	·23397	·19987
34	·71297	·60277	·51003	·43191	·36604	·31048	·26355	·22390	·19035
35	·70591	·59387	·50003	·42137	·35583	·29998	·25342	·21425	·18129
36	·69892	·58509	·49022	·41109	·34503	·28933	·24367	·20503	·17266
37	·69200	·57644	·48061	·40107	·33498	·28003	·23430	·19620	·16444
38	·68515	·56792	·47119	·39128	·32523	·27056	·22529	·18775	·15661
39	·67837	·55953	·46195	·38174	·31575	·26141	·21662	·17967	·14915
40	·67165	·55126	·45289	·37243	·30656	·25257	·20829	·17193	·14205
41	·66500	·54312	·44401	·36335	·29763	·24403	·20023	·16453	·13528
42	·65842	·53509	·43530	·35443	·28896	·23573	·19257	·15744	·12884
43	·65190	·52713	·42677	·34584	·28054	·22781	·18517	·15066	·12270
44	·64545	·51939	·41840	·33740	·27237	·22010	·17805	·14417	·11686
45	·63906	·51171	·41020	·32917	·26444	·21266	·17120	·13796	·11130
46	·63273	·50415	·40215	·32115	·25674	·20547	·16461	·13202	·10600
47	·62646	·49670	·39427	·31331	·24929	·19852	·15829	·12634	·10095
48	·62026	·48936	·38654	·30567	·24200	·19181	·15219	·12090	·95914
49	·61412	·48213	·37896	·29822	·23495	·18532	·14634	·11569	·909156
50	·60804	·47500	·37153	·29094	·22811	·17905	·14071	·11071	·86730

40 EXPONENTIALS & HYPERBOLIC FUNCTIONS.

x	e^x	e^{-x}	$\cosh x$	$\sinh x$	$\tanh x$	$\log \cosh x$	$\log \sinh x$
1	1.052	.9048	1.0050	.1002	.0997	0.0022	1.0007
2	1.2214	.8187	1.0201	.2013	.1974	.0086	"8089
3	1.3499	.7408	1.0453	.3045	.2913	.0193	"4886
4	1.4918	.6703	1.0811	.4108	.3799	.0389	"6136
5	1.6487	.6066	1.1276	.5211	.4621	.0522	"7169
6	1.8221	.5488	1.1855	.6367	.5370	.0739	"8089
7	2.0138	.4966	1.2552	.7586	.6044	.0987	"8800
8	2.2255	.4493	1.3374	.8881	.6840	.1263	"9485
9	2.4596	.4066	1.4331	1.0265	.7163	.1563	0.0114
10	2.7183	.3679	1.5431	1.1752	.7616	.1884	0.0701
11	3.0042	.3329	1.6685	1.3357	.8005	.2223	0.1257
12	3.3201	.3012	1.8107	1.5095	.8337	.2578	0.1788
13	3.6698	.2725	1.9709	1.6984	.8617	.2947	0.2300
14	4.0552	.2466	2.1509	1.9043	.8854	.3326	0.2797
15	4.4817	.2231	2.3524	2.1293	.9051	.3715	0.3282
16	4.9530	.2019	2.5775	2.3756	.9217	.4112	0.3758
17	5.4739	.1827	2.8283	2.6456	.9354	.4515	0.4225
18	6.0496	.1653	3.1075	2.9422	.9468	.4924	0.4687
19	6.6859	.1496	3.4177	3.2632	.9563	.5337	0.5143
20	7.3891	.1353	3.7622	3.6269	.9640	.5754	0.5595
21	8.1662	.1225	4.1443	4.0219	.9704	.6175	0.6044
22	9.0251	.1103	4.5679	4.4571	.9758	.6597	0.6491
23	9.9742	.1003	5.0372	4.9370	.9801	.7022	0.6935
24	11.0232	.0907	5.5570	5.4662	.9837	.7448	0.7377
25	12.1825	.0821	6.1323	6.0502	.9866	.7876	0.7818
26	13.4638	.0743	6.7690	6.6947	.9890	.8305	0.8257
27	14.8797	.0672	7.4735	7.4063	.9910	.8735	0.8696
28	16.4446	.0608	8.2527	8.1919	.9926	.9166	0.9134
29	18.1741	.0550	9.1146	9.0596	.9940	.9597	0.9571
30	20.0855	.0498	10.063	10.018	.9951	1.0029	1.0008
31	22.1980	.0450	11.122	11.076	.9959	1.0462	1.0444
32	24.5325	.0408	12.287	12.246	.9967	1.0894	1.0880
33	27.1126	.0369	13.575	13.538	.9973	1.1327	1.1316
34	29.9641	.0334	14.999	14.965	.9978	1.1761	1.1751
35	33.1155	.0302	16.573	16.543	.9982	1.2194	1.2186
36	36.5982	.0273	18.313	18.285	.9985	1.2628	1.2621
37	40.4473	.0247	20.236	20.211	.9988	1.3061	1.3056
38	44.7012	.0224	22.362	22.339	.9990	1.3495	1.3491
39	49.4024	.0202	24.711	24.691	.9992	1.3929	1.3925
40	54.5982	.0183	27.308	27.290	.9993	1.4363	1.4360
41	60.3403	.0166	30.178	30.162	.9995	1.4797	1.4795
42	66.6863	.0150	33.351	33.336	.9996	1.5231	1.5229
43	73.6998	.0136	36.857	36.843	.9996	1.5665	1.5664
44	81.4509	.0123	40.732	40.719	.9997	1.6099	1.6098
45	90.0171	.0111	45.014	45.003	.9997	1.6533	1.6532
46	99.4843	.0101	49.747	49.737	.9998	1.6968	1.6967
47	109.9472	.0091	54.973	54.969	.9998	1.7402	1.7401
48	121.5104	.0082	60.759	60.751	.9999	1.7836	1.7836
49	134.2893	.0074	67.149	67.141	.9999	1.8270	1.8270
50	148.4132	.0067	74.210	74.203	.9999	1.8705	1.8704

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A special feature of the Tables of the Circular Functions is the prominence given to the true scientific unit of angle—namely, the Radian. The pupil cannot be introduced too soon to this conception; and most of the Tables included in Parts III. and V. give the angles in both the natural and conventional units. Table V., which, so far as the compiler knows, is now (1905) published for the first time, will be found of great service in graphical construction and in the graphical solution of equations involving the circular functions.

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